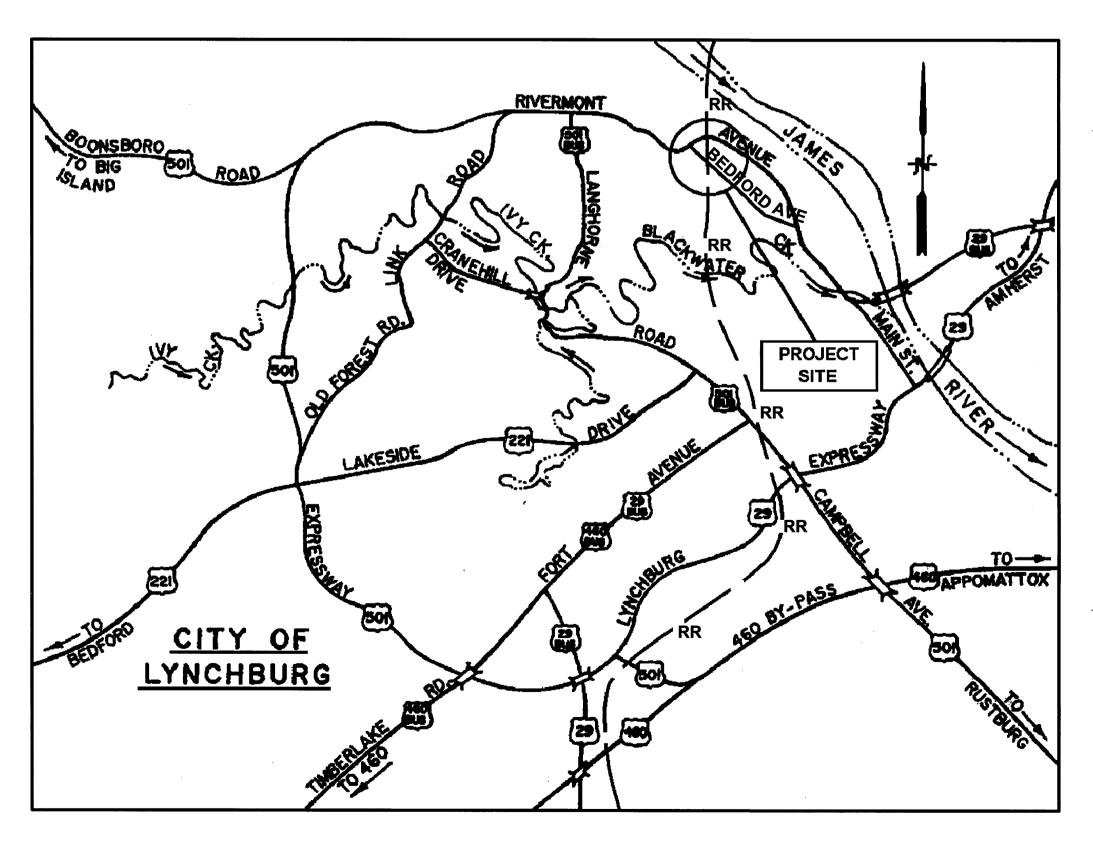
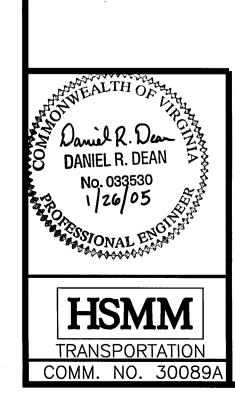


DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

PROPOSED REHABILITATION OF BEDFORD AVENUE BRIDGE OVER NS RAILWAY





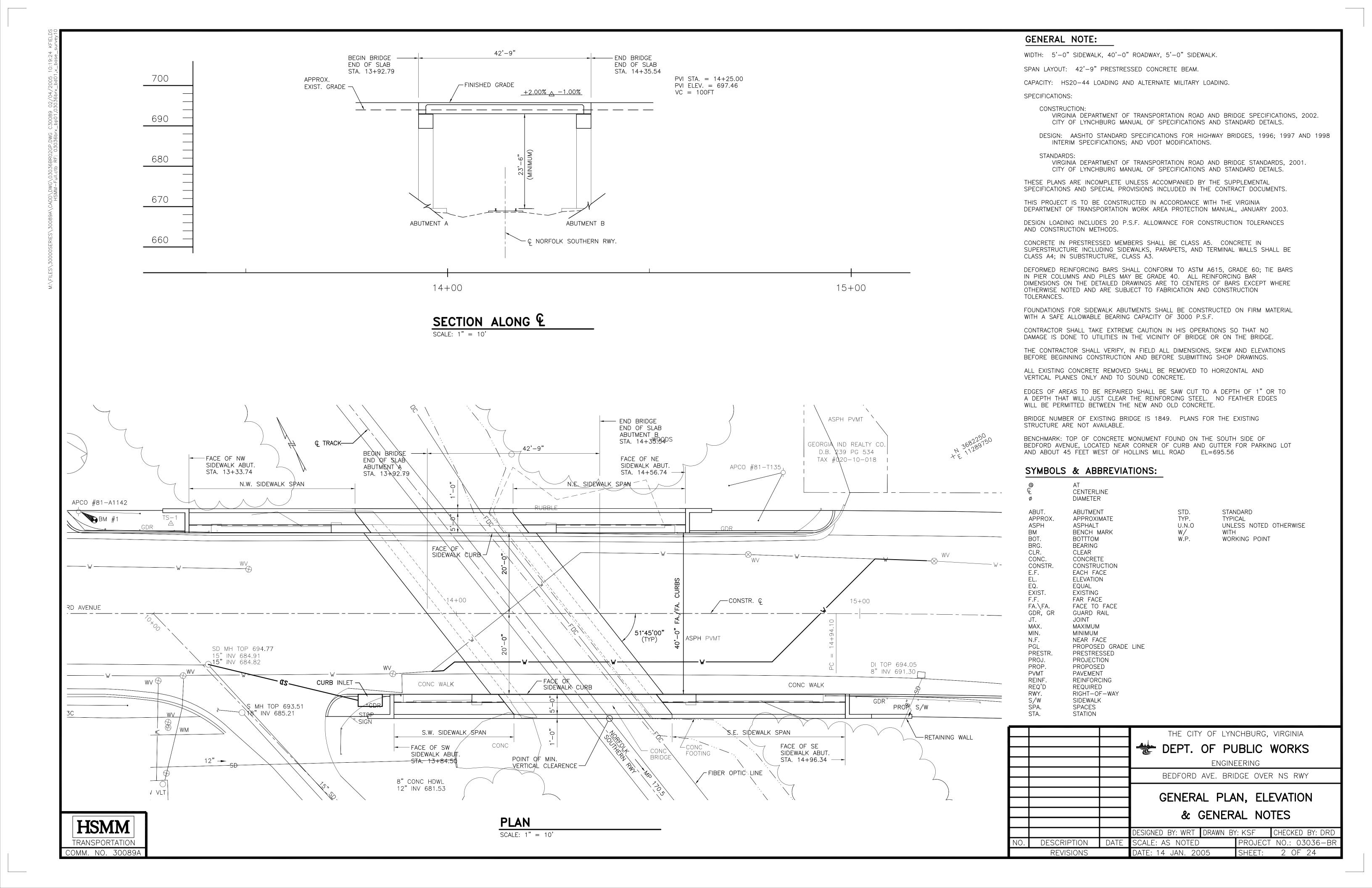
LOCATION MAP

NOT TO SCALE

INDEX	OF	SHEET	S

SHEET NO.	IIICC
1	COVER SHEET
2	GENERAL PLAN, ELEVATION & GENERAL NOTES
3	ESTIMATED QUANTITIES & DEMOLITION DETAILS
4	TYPICAL DECK SECTION
5	DECK SLAB PLAN
6	ERECTION DIAGRAM
7	PRECAST BEAM DETAILS
8	CAST-IN-PLACE CONCRETE PARAPET WITH SIDEWALK
9	PEDESTRIAN FENCE AND JOINT SEAL DETAILS
10	WATERLINE SYSTEM
11	ABUTMENT A MODIFICATIONS
12	ABUTMENT B MODIFICATIONS
13	ABUTMENT WINGWALL MODIFICATIONS
14	SIDEWALK ABUTMENTS - 1 OF 2
15	SIDEWALK ABUTMENTS - 2 OF 2
16	REINFORCING STEEL SCHEDULES - 1 OF 2
17	REINFORCING STEEL SCHEDULES - 2 OF 2
18	TRAFFIC CONTROL PLAN
19	ROADWAY GENERAL NOTES AND QUANTITY SUMMARY
20	TYPICAL SECTIONS & DETAILS
21	ROAD PLAN
22	ROAD PROFILES
23	ROADSIDE DEVELOPMENT
24	ROAD CROSS SECTION

PLANS REVISED SHEET NO. DATE APPROVED	
SHEET NO. DATE	
2/3/05 1. In Verland	
DATE DIRECTOR OF ENGINEERING	
APPROVED	
DATE CONSTRUCTION ENGINEER	
PROJECT NO.: 03036-BR	
DATE: 14 JAN. 2005	
SHEET 1 OF 24	



🛇 DENOTES ITEMS TO BE PAID FOR ON BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH THE SPECIFICATIONS.

FOR ESTIMATE OF QUANTITIES FOR ROADWAY, SEE SHT. 19.

- * LOW PERMEABILITY CONCRETE SHALL BE USED.
- ** QUANTITY INCLUDES AN EXTRA 1/2 INCH OF CONCRETE IN THE DECK THICKNESS, PER VDOT RBS SECTION 404.08.
- □ QUANTITY INCLUDES VDOT STD RW-3 RETAINING WALL AT S.E. SIDEWALK ABUTMENT.

LUMP SUM ITEMS MOBILIZATION - LUMP SUM

CONSTRUCTION SURVEYING - LUMP SUM

DISMANTLE AND REMOVE PORTION OF EXISTING STRUCTURE - LUMP SUM

ANTI-GRAFFITI PROTECTION - LUMP SUM

WATER LINE SYSTEM - LUMP SUM

THE PAY ITEM "DISMANTLE AND REMOVE PORTION OF EXISTING STRUCTURE" SHALL INCLUDE DEMOLITION AND REMOVAL OF THE EXISTING SUPERSTRUCTURE IN ITS ENTIRETY, AND PORTIONS OF ABUTMENTS AND WINGWALLS AS NOTED IN THESE PLANS.

THE PRICE BID FOR CONCRETE, CLASS A3 SHALL INCLUDE THE COST OF PREFORMED JOINT FILLER.

REGISTERED IN VIRGINIA. THE BRIDGE REMOVAL PLAN SHALL INCLUDE DETAILS, PROCEDURES AND THE SEQUENCE OF STAGED REMOVAL OF THE BRIDGE, INCLUDING ALL STEPS NECESSARY TO REMOVE THE THE RAILROAD RIGHT OF WAY UNTIL THE SUBMITTED MATERIAL HAS BEEN REVIEWED AND COMMENTS

A TRACK PROTECTIVE COVER SHALL BE CONSTRUCTED BEFORE BEGINNING DEMOLITION OF THE EXISTING SLAB SPAN SUPERSTRUCTURE AND MAY BE SUPPORTED BY FALSEWORK OR MEMBERS OF THE EXISTING STRUCTURE. TYPES OF PROTECTIVE COVERS THAT MAY BE ACCEPTABLE METHODS FOR PROTECTING THE

1) A TRACK SHIELD COVER OVER THE TRACKS: 2) A FRAMED COVER OUTSIDE THE TRACK CLEARANCE ENVELOPE;

IF A TRACK SHIELD IS USED, THE TRACK SHIELD SHALL:

1) BE DESIGNED BY THE CONTRACTOR AND SEALED BY AN ENGINEER REGISTERED IN VIRGINIA:

3) PREVENT ANY MATERIALS, EQUIPMENT, OR DEBRIS FROM FALLING ONTO THE RAILROAD TRACK. ADDITIONAL LAYERS OF MATERIALS SHALL BE FURNISHED AS NECESSARY TO PREVENT THE MATERIALS OR DEBRIS FROM SIFTING DOWN UPON THE TRACK.

RÉMOVAL, THE SHIELD SHALL BE CLEANED OF ALL DEBRIS AND FINE MATERIAL. LONGITUDINAL SUPPORT TIMBERS FOR THE TRACK SHIELD SHALL NOT EXTEND ABOVE THE TOP OF RAIL

CONSTRUCTION EQUIPMENT SHALL NOT BE PLACED ON THE TRACKS UNLESS TRACKS ARE PROTECTED.

ALL DEBRIS AND REFUSE RESULTING FROM THE WORK SHALL BE REMOVED FROM THE RIGHT OF WAY BY THE CONTRACTOR AND THE PREMISES LEFT IN A NEAT AND PRESENTABLE CONDITION.

A FLAGMAN IS REQUIRED WHEN ANY WORK IS PERFORMED WITHIN 25 FEET OF THE NEAREST RAIL.

NO BLASTING WILL BE PERMITTED ON RAILROAD'S RIGHT-OF-WAY.

IF ANY TEMPORARY SUPPORTS INTERFERE WITH THE NATURAL DRAINAGE ALONG THE RAILROAD RIGHT-OF-WAY, A TEMPORARY DRAINAGE PLAN SHALL BE SUBMITTED FOR REVIEW AND COMMENT PRIOR TO CONSTRUCTING TEMPORARY SUPPORTS. THE PROPOSED DRAINAGE PLAN SHALL ROUTE ALL DRAINAGE

DEMOLITION NOTES:

PRIOR TO DEMOLISHING THE EXISTING SLAB SPAN, THE CONTRACTOR SHALL REMOVE ALL OVERLAYING PAVEMENT MATERIAL, INCLUDING ASPHALT, BRICK, GRAVEL, AND FILL. ANY BRICK ENCOUNTERED DURING DEMOLITION SHALL BE CONSIDERED HISTORIC AND SHALL BE SALVAGED AS PART OF THE WORK, AND DELIVERED TO THE CITY'S FACILITIES AT 1700 MEMORIAL AVENUE.

AT ALL TIMES, THE CONTRACTOR SHALL MAINTAIN THE MINIMUM TEMPORARY VERTICAL AND HORIZONTAL CLEARANCES FROM THE TRACK, AS SHOWN IN THE TEMPORARY CLEARANCE DETAIL.

THE CONTRACTOR SHALL COORDINATE THE DEMOLITION SCHEDULE WITH THE RAILROAD. ALL DEMOLITION WORK WITHIN THE TRACK AREA SHALL BE PERFORMED DURING THE TIME WINDOWS WHEN TRAINS ARE NOT PASSING THE WORKSITE.

THE CONTRACTOR SHALL SUBMIT A BRIDGE REMOVAL PLAN TO THE RAILROAD SEALED BY AN ENGINEER BRIDGE IN A SAFE AND CONTROLLED MANNER. NO DEMOLITION OPERATIONS WILL BE PERMITTED OVER

TRACKS ARE:

3) A CATCHER BOX OR LOADER BUCKET SUSPENDED UNDER DECKING AND PARAPETS OVERHANGING THE EXISTING SLAB.

2) BE OF SUFFICIENT STRENGTH TO SUPPORT THE ANTICIPATED LOADS, AND TO SPAN BETWEEN ITS SUPPORTS WITHOUT BEARING UPON THE RAIL.

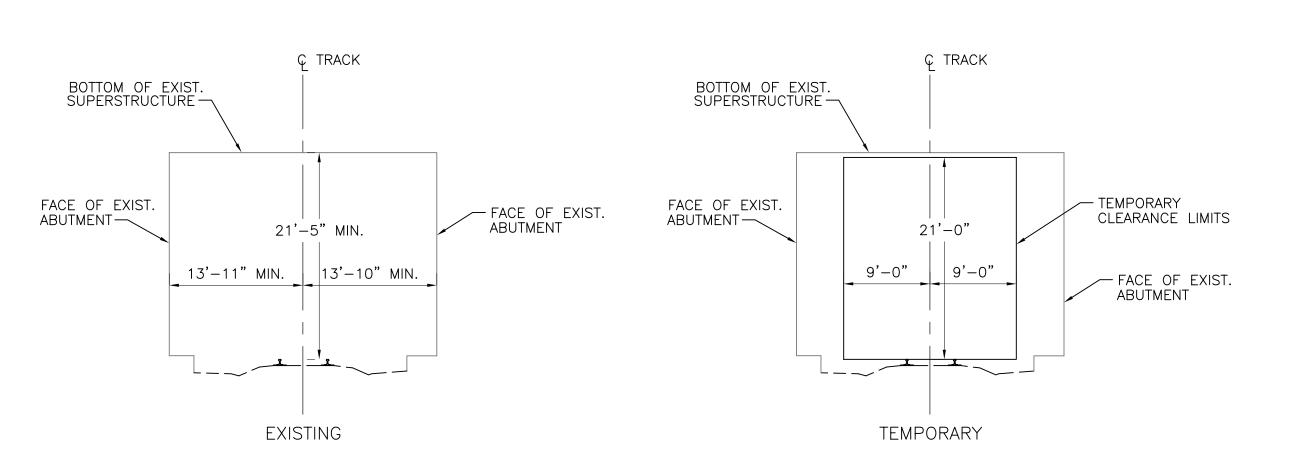
4) PREFERABLY BE PREFABRICATED AND FURNISHED WITH LIFTING HOOKS TO SIMPLIFY REMOVAL. BEFORE

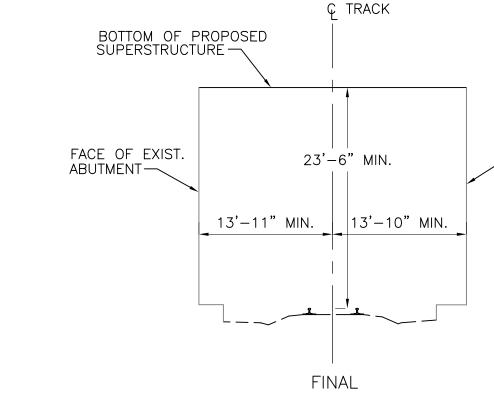
WHEN THE SHIELD IS REMOVED. BLOCKING FROM THE TOP OF RAIL TO THE BOTTOM OF THE SHIELD MAY BE ATTACHED TO THE SHIELD. REMAINING TIMBERS SHALL BE ANCHORED.

TRACK PROTECTION IS REQUIRED FOR ALL EQUIPMENT INCLUDING RUBBER-TIRED EQUIPMENT OPERATING WITHIN 25 FEET OF THE TRACKS.

AWAY FROM THE RAILROAD TRACKS.

THE DEMOLITION OPERATIONS SHALL BE PLANNED SUCH THAT THE UNDERGROUND FIBER OPTIC LINES ALONG THE TRACK ARE OPERATING SAFELY AT ALL TIMES. THE FIBER OPTIC LINES SHALL BE PROTECTED IF AFFECTED BY DEMOLITION OPERATIONS.





- FACE OF EXIST.

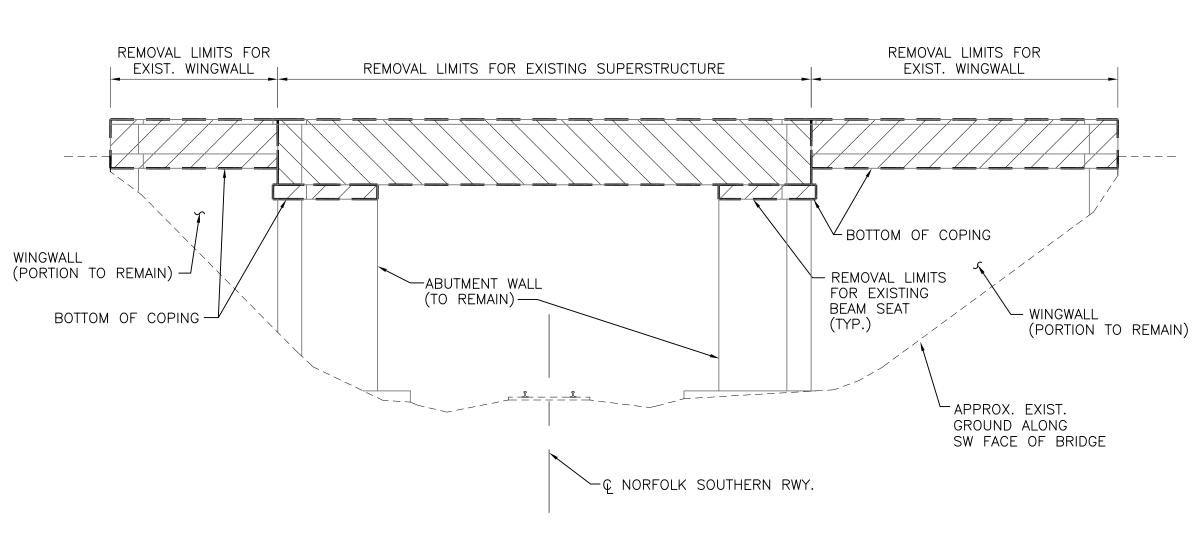
ABUTMENT

SHEET: 3 OF 24

RAILROAD CLEARANCE DIAGRAMS

(LOOKING NORTH)

SCALE: 1" = 10'-0"



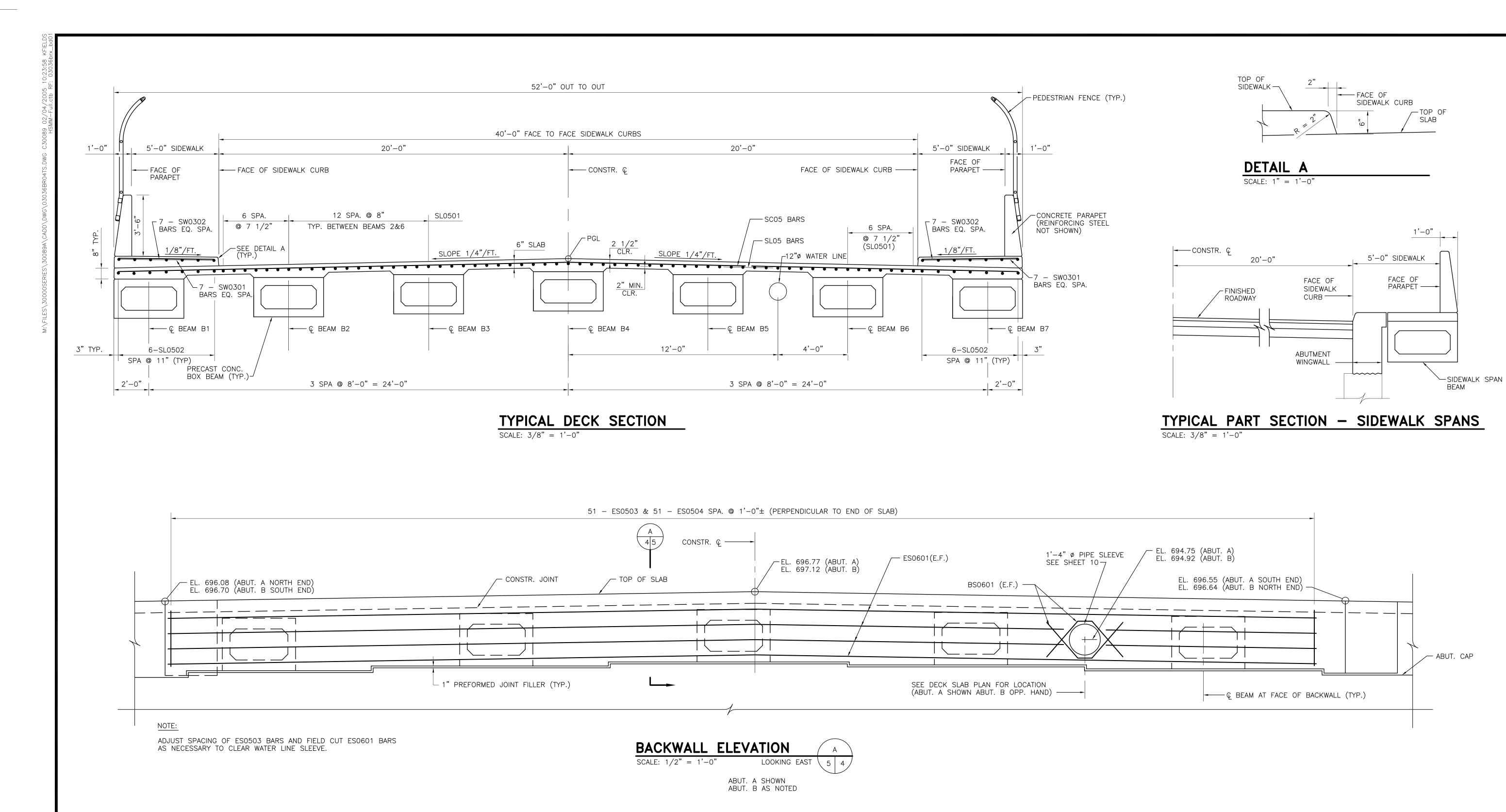
DEMOLITION LIMITS - ELEVATION SCALE: 1" = 10'-0"

THE CITY OF LYNCHBURG, VIRGINIA DEPT. OF PUBLIC WORKS ENGINEERING BEDFORD AVE. BRIDGE OVER NS RWY ESTIMATED QUANTITIES & **DEMOLITION DETAILS** DESIGNED BY: WRT DRAWN BY: KSF CHECKED BY: DRD DESCRIPTION DATE SCALE: AS NOTED PROJECT NO.: 03036—BR

|DATE: 14 JAN. 2005

REVISIONS

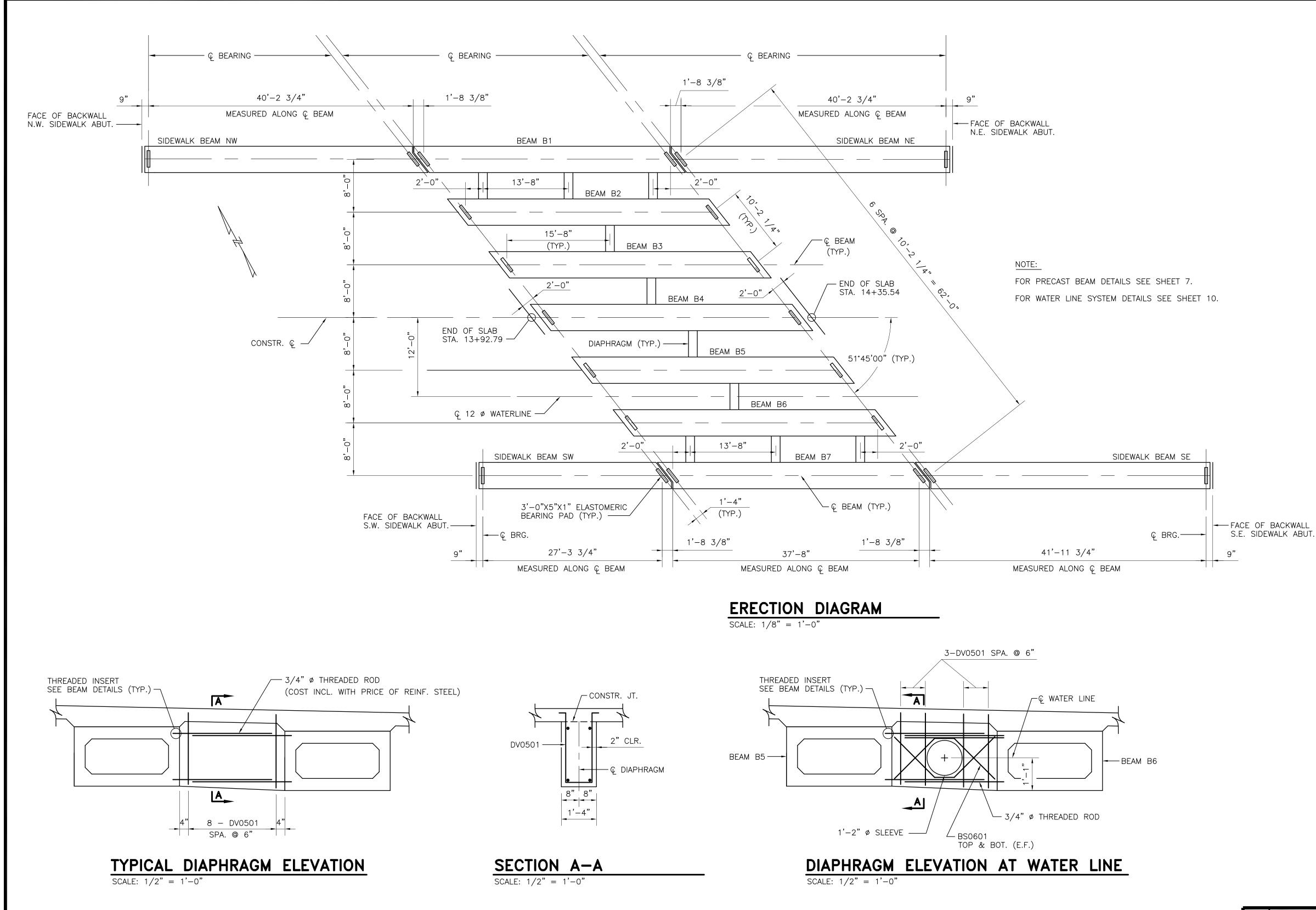
HSMM TRANSPORTATION COMM. NO. 30089.



			TOP	OF S	LAB E	LEVAT	IONS				
	BEGIN BRIDGE END OF SLAB										END BRIDGE END OF SLAB
	0.0L	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	1.0L
Face of North Curb	696.08	696.16	696.24	696.31	696.37	696.43	696.48	696.53	696.57	696.61	696.64
PGL	696.77	696.83	696.88	696.93	696.98	697.01	697.05	697.07	697.09	697.11	697.12
Face of South Curb	696.55	696.59	696.62	696.65	696.67	696.69	696.70	696.71	696.71	696.71	696.70

TRANSPORTATION
COMM. NO. 30089A

			THE CITY OF LYN	CHBURG, VIRGINIA
\sqcup		ļ	DEPT. OF PU	IBLIC WODKS
			DLFI. OF FO	DDLIC WOINKS
			ENGINI	EERING
		<u> </u>	BEDFORD AVE. BRI	DGE OVER NS RWY
		 		
				014 05071011
			I TYPICAL DE	CK SECTION
\vdash				
			DESIGNED BY: JAW DRAWN BY	/: KSF CHECKED BY: DRD
NO.	DESCRIPTION	DATE	SCALE: AS NOTED	PROJECT NO.: 03036-BR
	REVISIONS		DATE: 14 JAN. 2005	SHEET: 4 OF 24
	11211010110		B7 (1 E1 1 1 07 (1 1 2 0 0 0	0112211 1 01 21



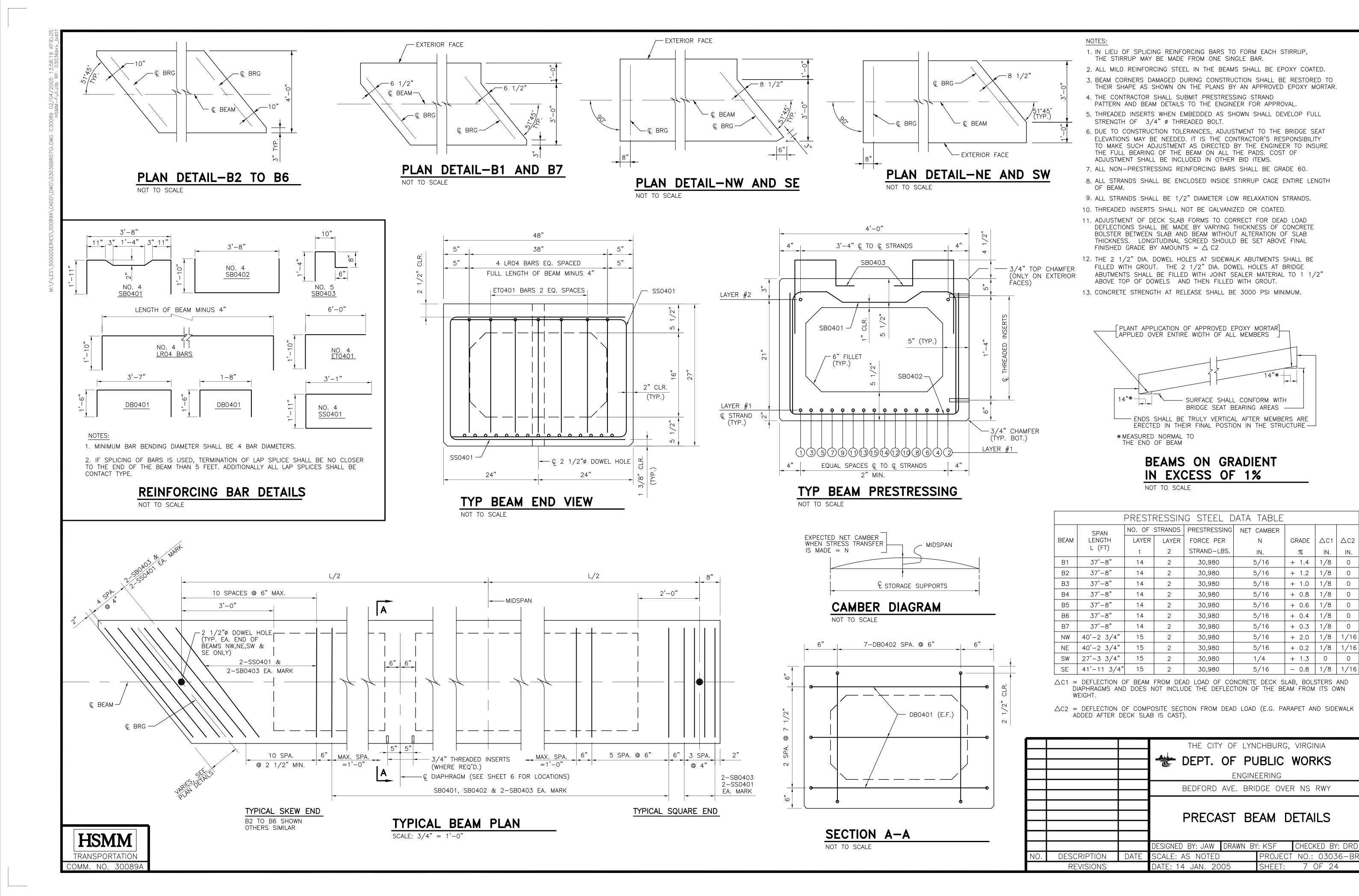
	TC	P OF	SLAE	B ELE	/ATION	S ALC	NG Q	BEAN	/IS		
	Ç BRG. ABUT. A O.OL	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	© BRG. ABUT. B 1.0L
BEAM B1	695.99	696.06	696.13	696.19	696.25	696.30	696.35	696.40	696.44	696.48	696.51
BEAM B2	696.27	696.34	696.40	696.45	696.50	696.55	696.60	696.63	696.67	696.70	696.73
BEAM B3	696.54	696.60	696.65	696.70	696.75	696.79	696.82	696.86	696.88	696.91	696.93
BEAM B4	696.80	696.85	696.90	696.94	696.98	697.01	697.04	697.07	697.09	697.10	697.12
BEAM B5	696.72	696.76	696.80	696.84	696.87	696.89	696.91	696.93	696.95	696.95	696.96
BEAM B6	696.62	696.66	696.69	696.72	696.74	696.76	696.77	696.79	696.79	696.79	696.79
BEAM B7	696.51	696.54	696.57	696.59	696.60	696.62	696.62	696.63	696.63	696.62	696.61

HSMM

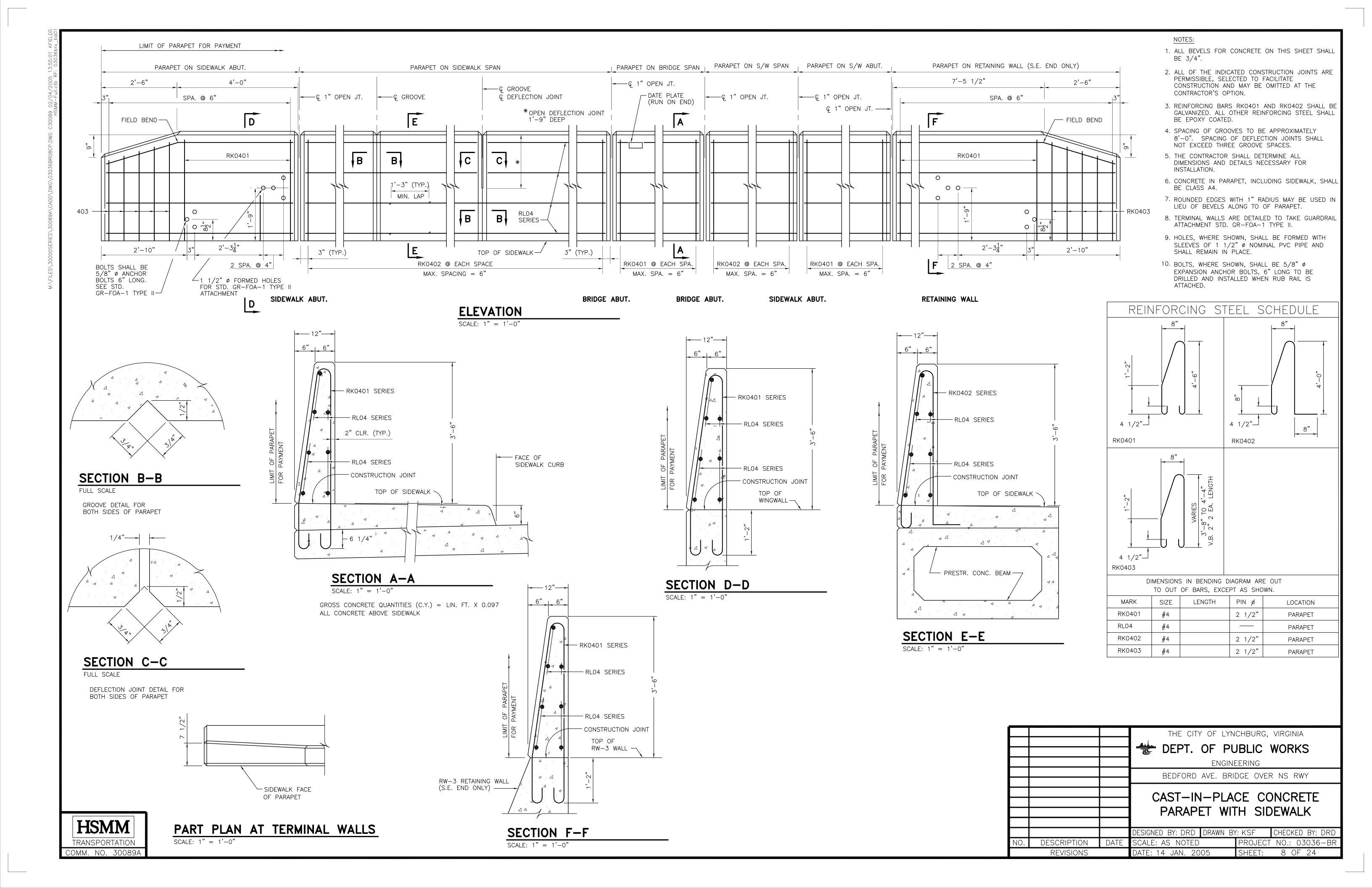
TRANSPORTATION COMM. NO. 30089A

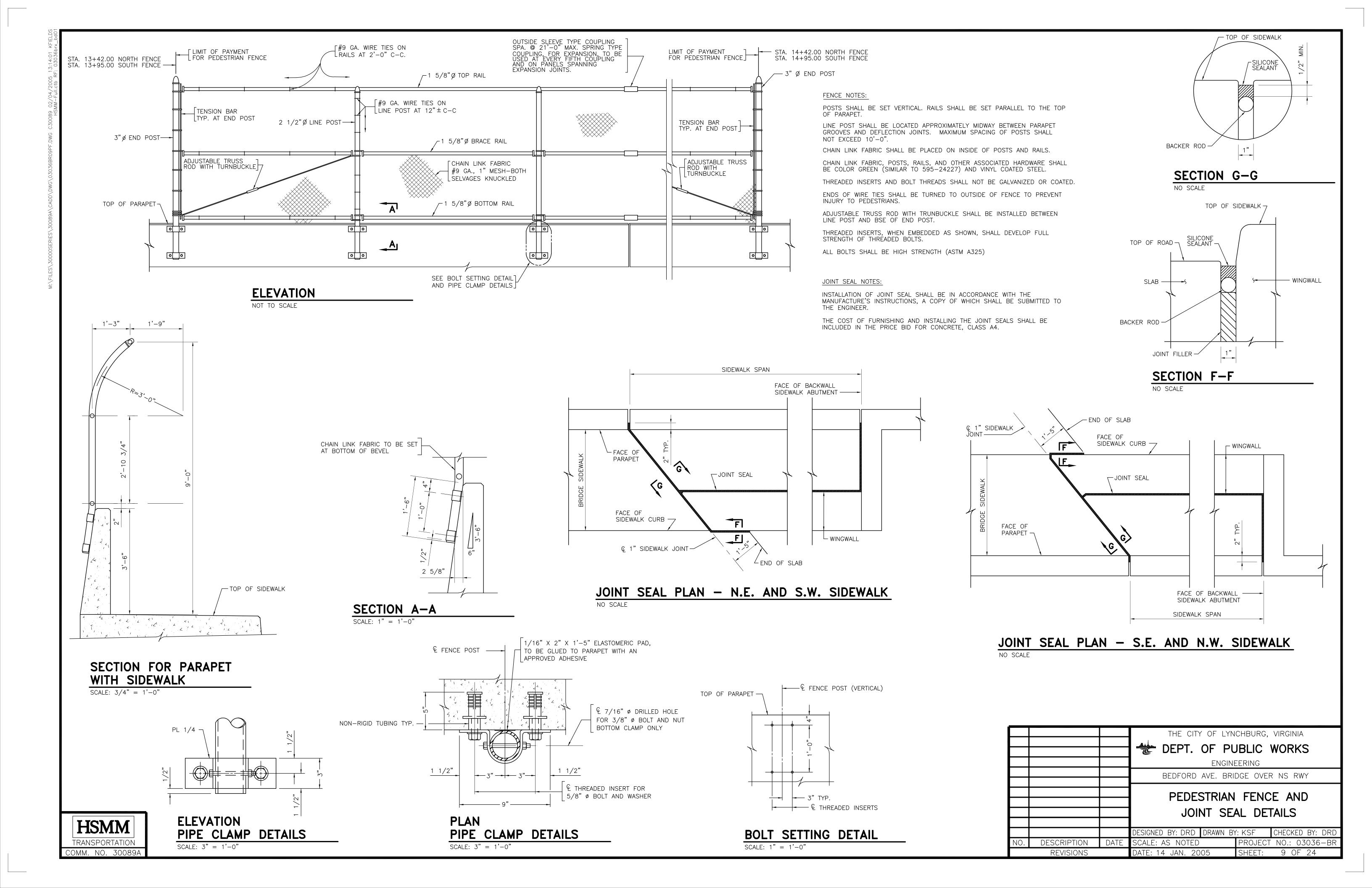
	TOP OF SI	LAB ELE	VATIONS	S ALON	G Q B	EAMS
		© BRG. S∕W ABUT.				Ç BRG. BRIDGE ABUT.
	SIDEWALK BEAM	0.0L	0.25L	0.5L	0.75L	1.0L
	NW	695.77	695.98	696.18	696.38	696.58
	NE	697.22	697.25	697.25	697.21	697.15
	SW	696.77	696.88	696.98	697.06	697.12
[SE	696.88	696.98	697.09	697.18	697.23

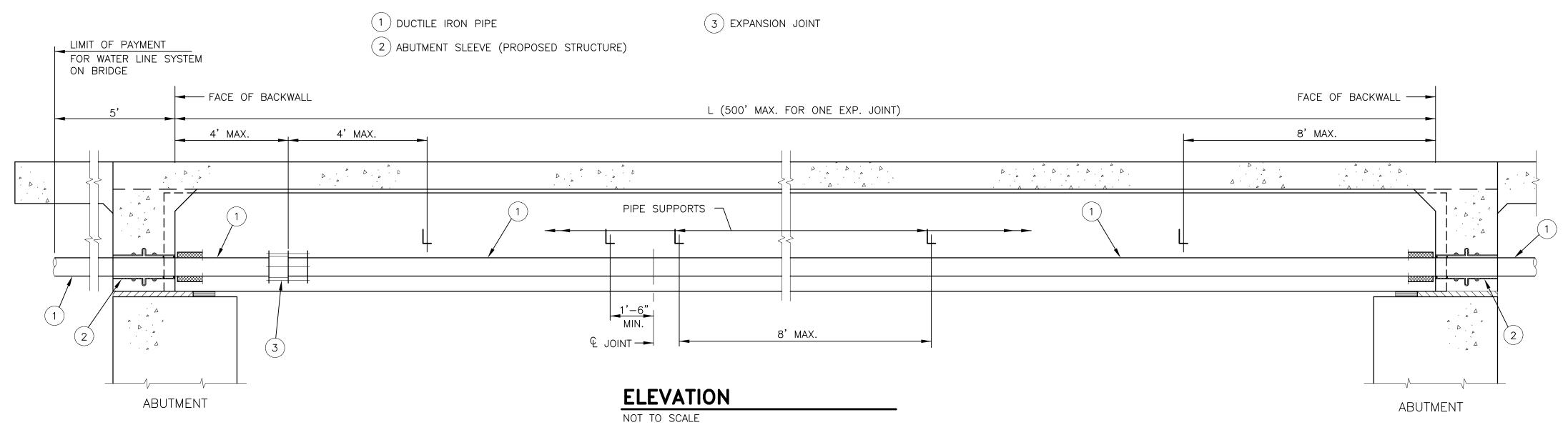
THE CITY OF LYNCHBURG, VIRGINIA DEPT. OF PUBLIC WORKS ENGINEERING BEDFORD AVE. BRIDGE OVER NS RWY ERECTION DIAGRAM	
DESIGNED BY: JAW DRAWN BY: KSF CHECKED BY: DF	: DRD
NO. DESCRIPTION DATE SCALE: AS NOTED PROJECT NO.: 03036-E	6-BR
REVISIONS DATE: 14 JAN. 2005 SHEET: 6 OF 24	-



IN.







NOTES:

MATERIAL - DUCTILE IRON WITH MECHANICAL JOINT

MINIMUM THICKNESS - CLASS 52 (RATED PRESSURE 300 PSI)

HYDROSTATIC TEST PRESSURE SHALL BE 200 PSI MINIMUM.

SPECIFICATION: ANSI A 21.51/AWWA C151

FINISH — CEMENT LINED; BITUMINOUS OUTER COAT STEEL CASING — API 5L—B 3/8 " WALL

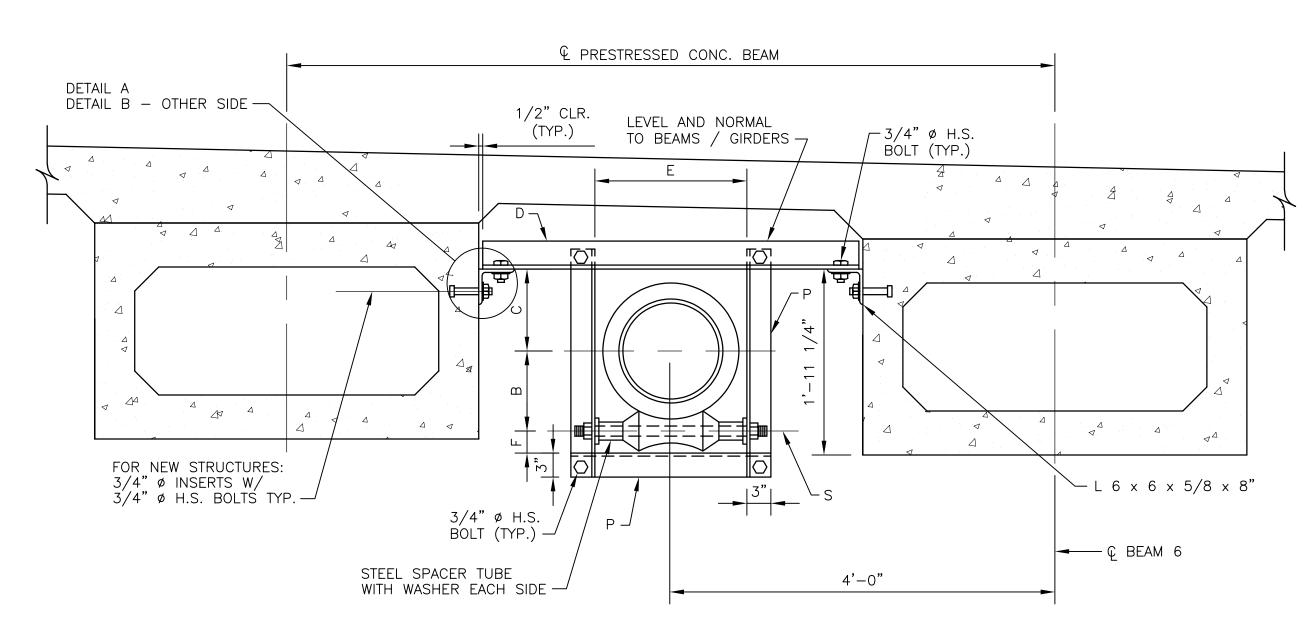
ABUTMENT — CASING AS DETAILED OR CENTURY—LINE SLEEVE TO BE
USED FOR PROPOSED STRUCTURE ONLY SEAL — ONE LINK—SEAL AT EACH FACE

EXPANSION JOINT - DRESSER STYLE 63, TYPE 3

GALVANIZATION — MISCELLANEOUS HARDWARE (ANGLES, RODS, ETC.), UNLESS OTHERWISE SPECIFIED, SHALL BE GALVANIZED.

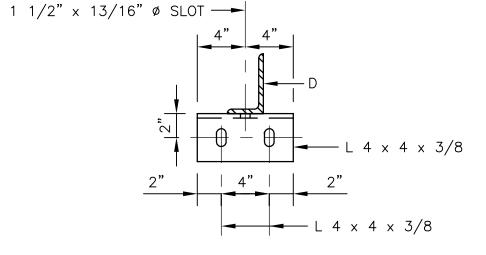
INSULATION WILL BE REQUIRED.

PAYMENT — WATER LINE SYSTEM SHALL BE PAID FOR ON A LUMP SUM BASIS, WHEREIN NO MEASUREMENT SHALL BE MADE, AND SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE, WHICH PRICE SHALL INCLUDE FURNISHING AND INSTALLING DUCTILE IRON WATER MAIN, EXPANSION JOINTS, TESTING, DISINFECTING (WHEN REQUIRED), INSULATION AND COVER (WHEN RERQUIRED), HANGERS, ROLLERS, RODS, ABUTMENT SLEEVES, LINK SEALS, CASING UNDER APPROACH SLAB (WHEN REQUIRED) AND MISCELLANEOUS HARDWARE; ALL AS DETAILED ON THE WATER LINE SYSTEM DRAWING INCLUDED HEREIN AND WITHIN THE PAY LIMITS SHOWN THEREON. SUCH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

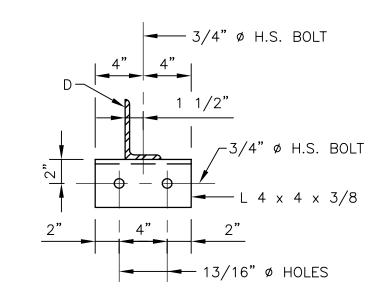


TYPICAL SUPPORT DETAIL AT EXPANSION JOINT SCALE: 1" = 1'-0"

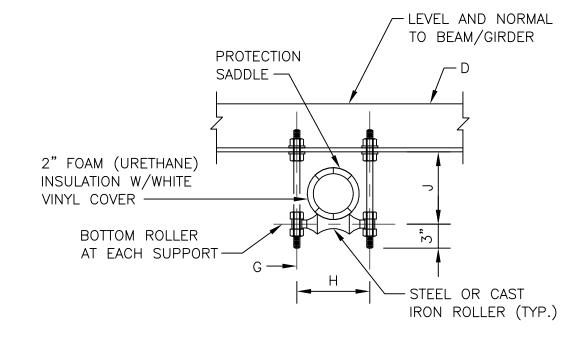
FOR INSULATION, USE 2" FOAM (URETHANE) INSULATION W/WHITE VINYL COVER AND PROTECTION SADDLES. PROVIDE SUPPORT DETAIL ON BOTH SIDES OF EXPANSION JOINT FOR BRIDGES OVER 500'.



DETAIL A



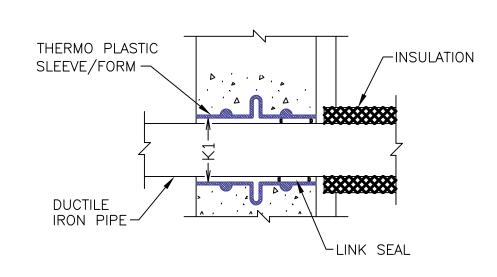
DETAIL B1 1/2" = 1'-0"



TYPICAL SUPPORT DETAIL

NOT TO SCALE

FOR DETAILS NOT SHOWN, SEE TYPICAL SUPPORT DETAIL AT EXPANSION JOINT.



ABUTMENT SLEEVE DETAIL

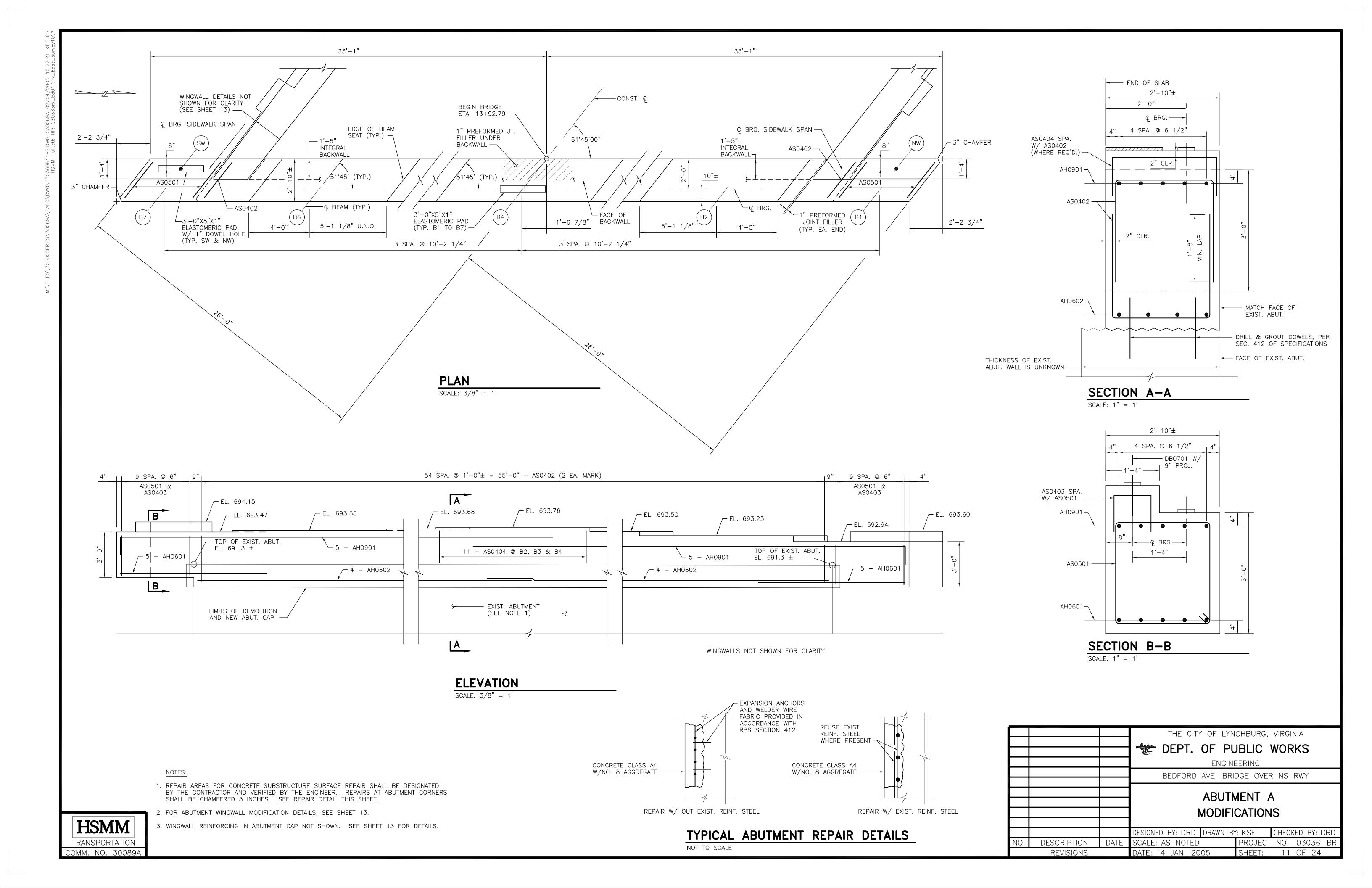
NOT TO SCALE

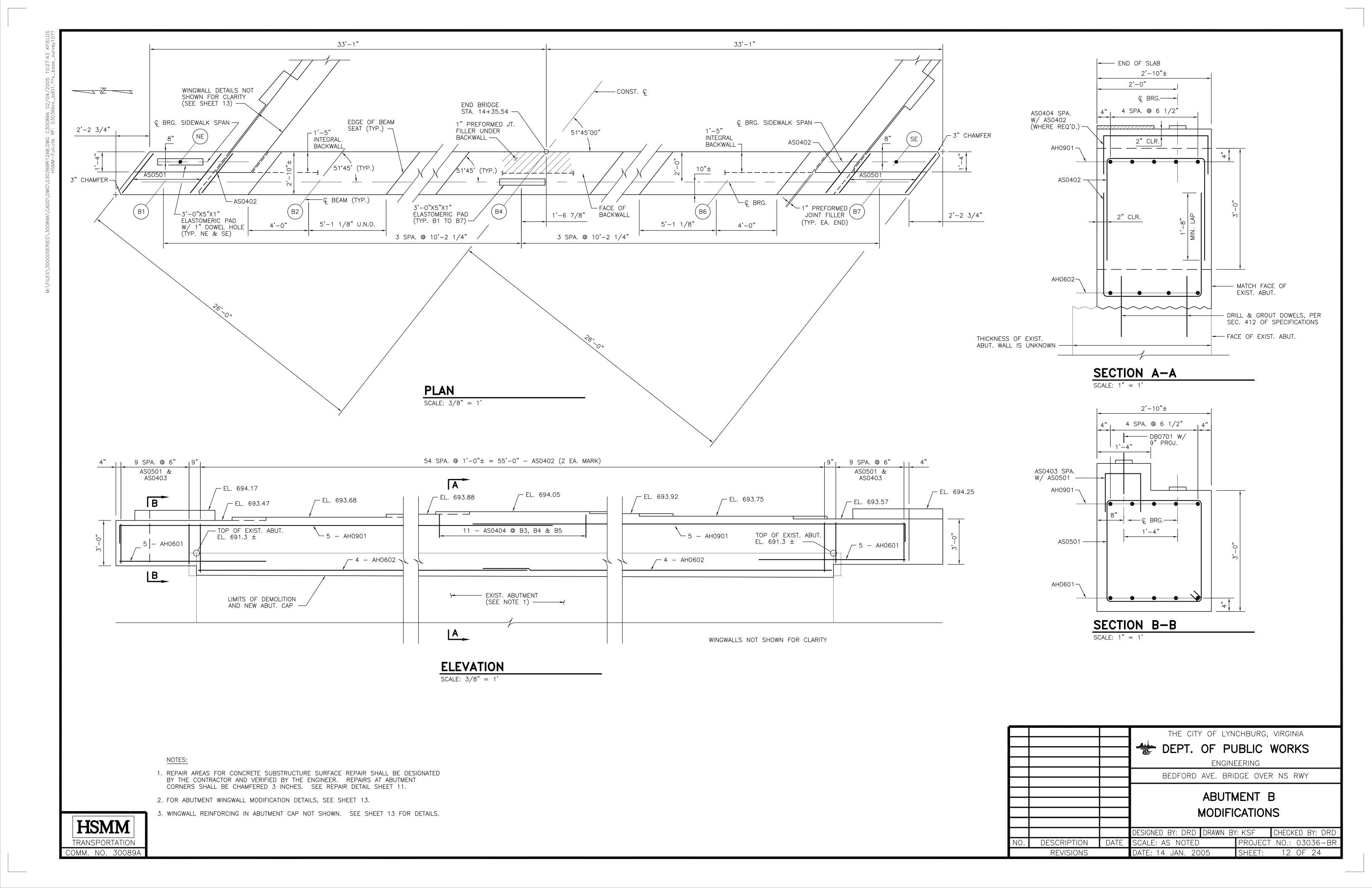
								DIMENS	IONS								
PIPE Ø	А	В	С	D		Е	F	G	Н	J	K1	K2	М	N		Р	S
6"	8 1/2"	6 1/2"	6 3/4"	L 6×4× 1/2		1'-1"	2 3/4"	7/8"	1'-2"	1'-1 1/8"	0'-10"	1'-2"	9 11/16"	8 1/8"	L	3x3x 3/8	7/8"
8"	9 3/4"	7 1/2"	7 3/4"	L 6x4x 1/2		1'-3"	2 3/4"	7/8"	1'-3 3/4"	1'-3 5/8"	1'-0"	1'-4"	1'-0 1/8"	10 5/8"	L	3x3x 3/8	1"
10"	11 1/2"	8 3/4"	9"	L 6x4x 1/2		1'-5"	2 3/4"	1"	1'-5 3/4"	1'-6 3/4"	1'-2"	1'-6"	1'-2 1/8"	1'-0 5/8"	L	3x3 1/2 x 3/8	1 1/8"
12"	1'-0 3/4"	10"	10 1/4"	L 6x4x 1/2	L 3 1/2x3 1/2x 1/2	1'-7"	2 3/4"	1"	1'-7 3/4"	1'-8 1/4"	1'-4"	1'-8"	1'-4"	1'-3"	L	3x3 1/2 x 3/8	1 1/4"
14"	11"	8 3/8"	8 5/8"	L 7x4x 1/2		1'-9"	4"	1"	1'-9 1/2"	1'-9 5/8"	1'-6"	1'-10"	1'-5 3/4"	1'-4 3/4"	L	3x4x 3/8	1 1/8"
16"	1'-0 1/4"	9 1/2"	9 3/4"	L 7x4x 1/2		1'-11"	4"	1"	1'-11 1/2"	1'-11 3/8"	1'-8"	2'-0"	1'-7 3/4"	1'-7"	L	3x4x 3/8	1 1/4"
18"	1'-1 1/2"	10 1/2"	10 3/4"	L 8x4x 1/2		2'-1"	4"	1 1/8"	2'-1 3/4"	2'-2 1/8"	1'-10"	2'-2"	1'-9 7/8"	1'-9"	L	3x5x 3/8	1 1/4"
20"	1'-3"	11 5/8"	11 7/8"	L 8x4x 3/4		2'-3"	4"	1 1/4"	2'-4"	2'-4 1/8"	2'-0"	2'-4"	2'-0 1/4"	1'-11 1/4"	L	3x5x 3/8	1 1/4"
24"	1'-7"	1'-2"	1'-2 1/4"	, L 8×4× 3/4		2'-7"	4"	1 1/2"	2'-8 3/8"	2'-9 1/8"	2'-6"	2'-10"	2'-4 5/8"	2'-4"	L	3x5x 3/8	1 1/2"

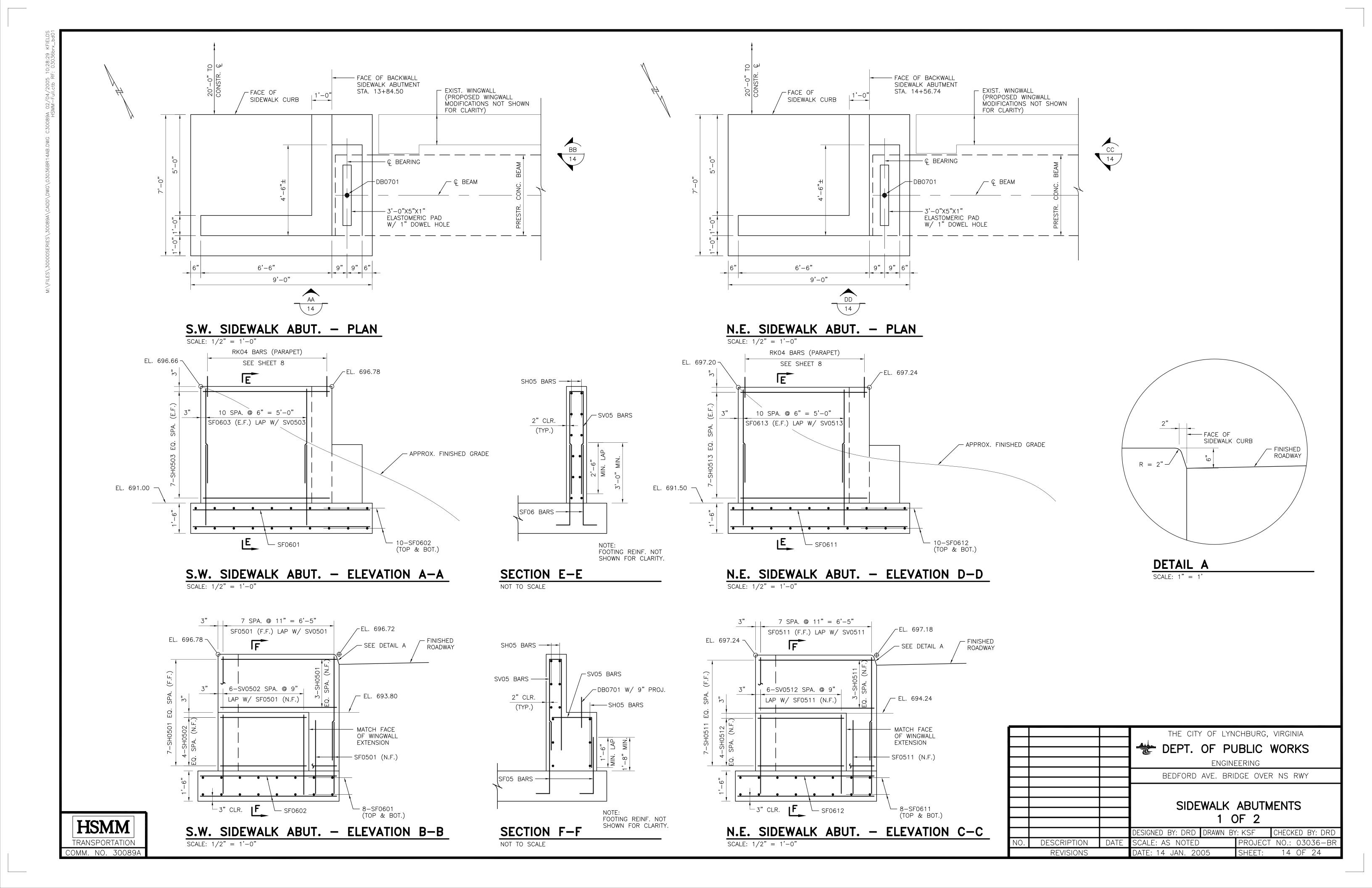
TRANSPORTATION 70080A

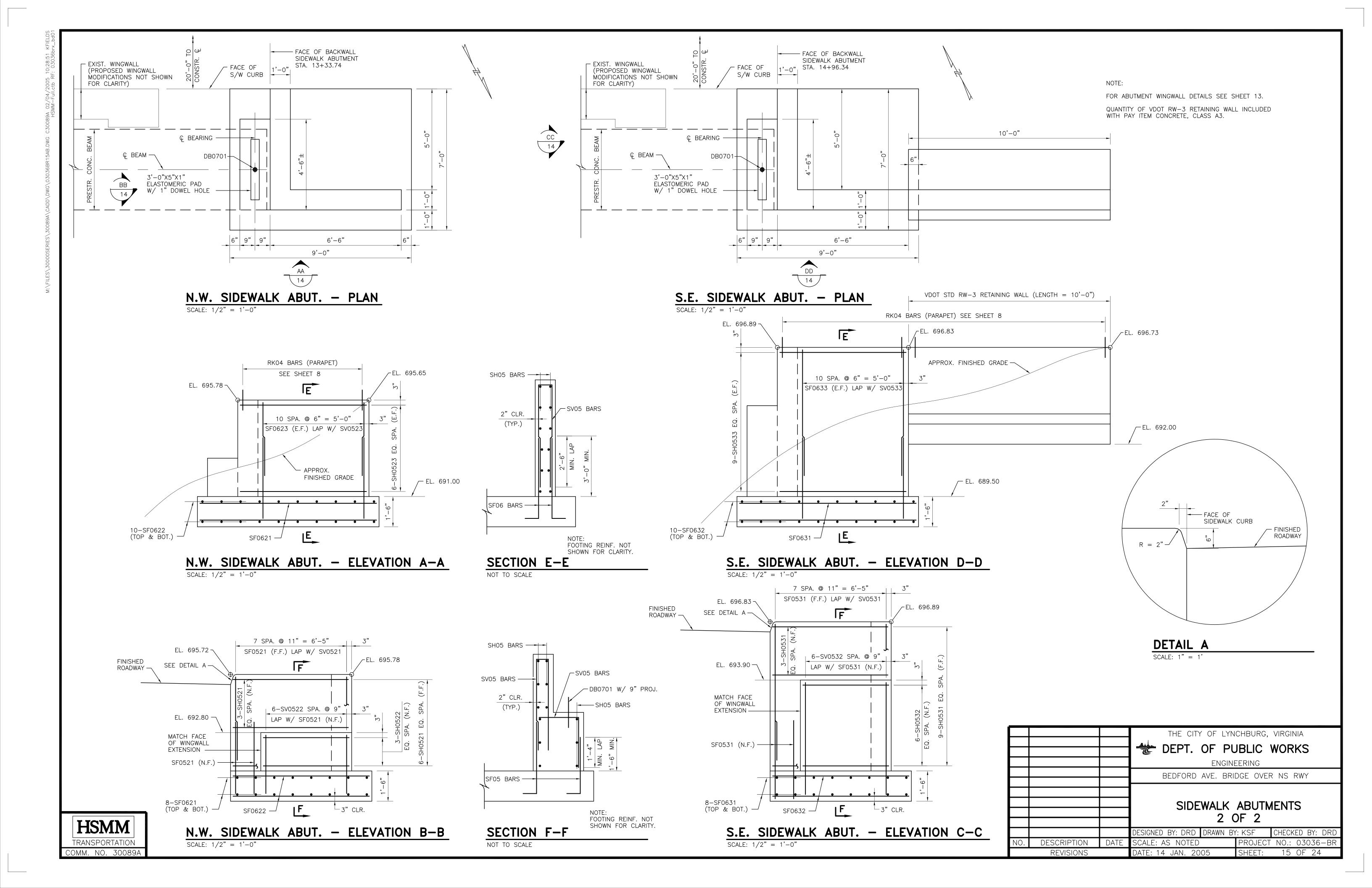
TRANSPORTATION G = DIAMETER OF ROD COMM. NO. 30089A S = DIAMETER OF SHAFT

			THE CITY OF LYN DEPT. OF PU ENGINE BEDFORD AVE. BRI WATER LIN	JBLIC EERING DGE OVER	WORKS R NS RWY
			DESIGNED BY: DRD DRAWN BY	r: KSF	CHECKED BY: DRD
NO.	DESCRIPTION	DATE	SCALE: AS NOTED	PROJECT	NO.: 03036-BR
	REVISIONS		DATE: 14 JAN. 2005	SHEET:	10 OF 24









			REINFC	RCING	STEEL SC	HEDULE	-						DIME	NSION	TABLE					
MARK	NO.	BAR SIZE	PIN DIA.	L FTINCHES	ENGTH FTINCHES	WEIGHT (LBS.)	LOCATION	MARK	TYPE	A ET INCHES	B ET_INICHES	C C	D ET INCHES	E P FTINCHES	F Q ET_INCHES	G R ET_INCHES	H FTINCHES	S S	J T	θ DEGREES
SUPFRS	TRUC		FTINCHES - EPOXY (FIINCHES	(LB3.)				FIINCHES	FIINCHES	FIINCHES	FIINCHES	FIINCHES	FIINCHES	FIINCHES	FIINCHES	FIINCHES	FTINCHES	DEGREES
BS0601 DV0501 SL0501	12 78 61	6	4 1/2 2 1/2			107 534 2688	BACKWALL & DIAPHRAGM DIAPHRAGM SLAB	BS0601 DV0501	9 10	1-04	8	2-04	1-00	1-08	1-08	2-04				
SL0501 SL0502 SC0501 SC0502	14 118 48	5 5 5		42-03 38-08 8-00 26-06	TO 45-00		SLAB SLAB SLAB	SL0501 SL0502 SC0501 SC0502	1 1 1	42-03 38-08 VARY 26-06										
ES0501 ES0502 ES0503	8 4	5 5 5		26-06 11-00 50-06			SLAB SLAB SLAB BACKWALL	SC0502 ES0501 ES0502 ES0503	1	26-06 11-00 50-06										
ES0503 ES0504 ES0601 SW0301	102 102 16 14	5	2 1/2 2 1/2 3 3/4	3-04 52-09 38-08			BACKWALL BACKWALL SIDEWALK	ES0503 ES0504 ES0601	9 2	2-00 50-03 38-08	6 1-04	2-04	9	6	6	8 1/2				50
SW0301 SW0302	80	3	3 3/ +	6-09		204	SIDEWALK	SW0301 SW0302	1	38-08 6-09										
				SUBTOTAL		11445														
ABUTME AH0601	NT A	- PL	AIN 	9-08		145	ABUT. CAP	AH0601	1	9-08										
AH0601 AH0602 AH0901	8 10	6 9 4	9	9-08 29-06 37-03			ABUT. CAP ABUT. CAP	AH0601 AH0602 AH0901	1 6 7	9-08 29-06	2-00 3-01	35-06 2-10	2-10							
AS0402 AS0403 AS0404	110 20 33	4 4	2 2 2 2	4-04 4-00			ABUT. CAP ABUT. CAP	AS0403 AS0404	7 7		1-02 1-02	1-08 1-06	1-08 1-06							
AS0501 DB0701 AH0501	20 2 8		2 1/2	11-07 1-06 8-00			ABUT. CAP ABUT. CAP SW WING	AS0501 DB0701 AH0501	11 1 1	1-06 8-00	3–01	2-06	5 5/8							
AH0502 AH0503 AH0504	8 20 30	5 5 5		9-07 15-00 17-00			NW WING SW WING NW WING	AH0502 AH0503 AH0504	1 1 1	9-07 15-00 17-00										
AV0501 AV0502 AV0503	142 21 36	5 5 5	2 1/2 2 1/2	4-00 14-03 4-05		592 311 165	SW & NW WING SW & NW WING SW WING	AV0501 AV0502 AV0503	1 7 6	4-00	1-07 1-00	6-05 3-06	6-05							
AV0506 AV0507 AV0508	62 6 4	5 5 5	2 1/2 2 1/2 2 1/2	3-07 14-08 11-06		230 91 48	NW WING SW & NW WING SW WING	AV0506 AV0507 AV0508	6 7 7		1-00 2-00 1-05	2-08 6-05 5-02	6-05 5-02							
AV0511	6	5	2 1/2	9-08		61	NW WING	AV0511	7		1-05	4-03	4-03							
				SUBTOTAL		5278														
ABUTME	NT B	– PL	AIN																	
AH0601 AH0602 AH0901	10 8 10	6 6 9	9	9-08 29-06 37-03		145 354 1266	ABUT. CAP ABUT. CAP ABUT. CAP	AH0601 AH0602 AH0901	1 1 6	9-08 29-06	2-00	35-06								
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AS0501 DB0701 AH0501	20 2 8	5 7 5	2 1/2	11-07 1-06 8-00			ABUT. CAP ABUT. CAP NE WING	AS0501 DB0701 AH0501	11 1 1	1-06 8-00	3-01	2-06	5 5/8							
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AV0509 AV0510	6	5	2 1/2	11-07			NE WING SE WING	AV0509 AV0510	7		1-05	5-02 6-10	5-02 6-10							
				SUBTOTAL		5800														

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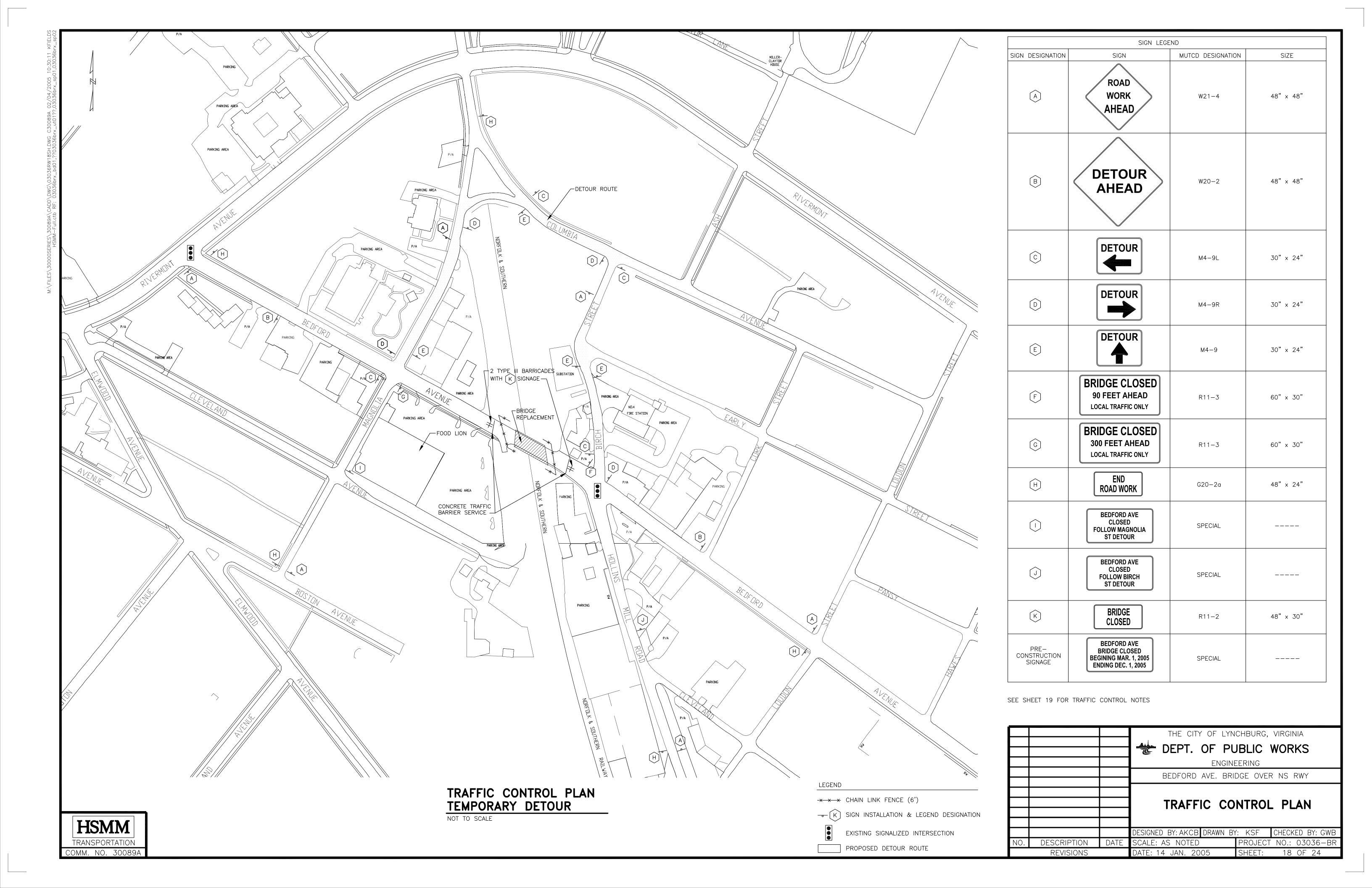
			THE CITY OF LYNCHBURG, VIRGINIA
			BEDT OF DUDING WORKS
			DEPT. OF PUBLIC WORKS
			ENGINEERING
			BEDFORD AVE. BRIDGE OVER NS RWY
			REINFORCING STEEL SCHEDLILE
			REINFORCING STEEL SCHEDULE
			REINFORCING STEEL SCHEDULE 1 OF 2
NO.	DESCRIPTION	DATE	1 OF 2
NO.	DESCRIPTION REVISIONS	DATE	1 OF 2 DESIGNED BY: KSF DRAWN BY: KSF CHECKED BY: DRD

F	REINFC	RCING STEEL SC	HEDULE			DIMENSION TABLE											
SIZE	PIN DIA.	LENGTH	WEIGHT	LOCATION	MARK	TYPE	A ET INCHES	B ET INCHES	C C	D ET INCHES	E P	F Q	G R	H	S S	J T	Ө
			(LBS.)				FI.—INCHES	FIINCHES	FIINCHES	FI.—INCHES	FI.—INCHES	FIINCHES	FTINCHES	FI.—INCHES	FIINCHES	FI.—INCHES	DEGREES
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SH0501 10 5 SH0502 4 5	, , _	5-03 5-08 4-00		FOOTING BACKWALL BEAM SEAT	SF0603 SH0501 SH0502	1 1	5-08 4-00 6-02										
SH0503 14 5 SV0501 8 5 SV0502 6 5	3 3/4 3 3/4	6-02 11-03 4-06		WING BACKWALL BEAM SEAT	SH0503 SV0501 SV0502	7 6	6-02	8 2-00	5-05 2-07	5-05							
SV0503 11 5 DB0701 1 7	3 3/4	10-09 1-06	123 2	WING BEAM SEAT	SV0503 DB0701	7	1-06	8	5-02	5-02							
		SUBTOTAL	1195														
N.E. SIDEWALK ABUTI	MENT -	PLAIN															
SF0511 16 5 SF0611 16 6 SF0612 20 6	3 3/4	12-09 8-06 6-06	212 204 195	FOOTING FOOTING FOOTING	SF0511 SF0611 SF0612	6 1 1	8-06 6-06	2-10	10-00								
SF0613 22 6 SH0511 10 5 SH0512 4 5	4 1/2	5-03 5-08 4-00		FOOTING BACKWALL BEAM SEAT	SF0613 SH0511 SH0512		5-08 4-00	4-04	1-00								
SH0513 14 5 SV0511 8 5	3 3/4 3 3/4	6-02 11-01		WING BACKWALL BEAM SEAT	SH0513 SV0511 SV0512	1 7	6-02	. 8	5-04 2-06	5-04							
SV0512 6 5 SV0513 11 5 DB0701 1 7	3 3/4	4-05 10-07 1-06	121	WING BEAM SEAT	SV0512 SV0513 DB0701	6 7 1	1-06	2-00	5-01	5-01							
		SUBTOTAL	1190														
N.W. SIDEWALK ABUT	3 3/4		209	FOOTING	SF0521	6		2-08	10-00								
SF0621 16 6 SF0622 20 6	4 1/2	12-07 8-06 6-06		FOOTING FOOTING	SF0521 SF0621 SF0622	1 1	8-06 6-06	4-04	1-00								
SH0521 9 5 SH0522 3 5	4 1/2	5-03 5-08 4-00		FOOTING BACKWALL BEAM SEAT	SF0623 SH0521 SH0522	1 1	5-08 4-00	4-04	1-00								
SH0523 12 5 SV0521 8 5 SV0522 6 5	3 3/4 3 3/4	6-02 9-03 3-06	77 77 22	WING BACKWALL BEAM SEAT	SH0523 SV0521 SV0522	1 7 6	6-02	8 2-00	4-05 1-07	4-05							
SV0523 11 5 DB0701 1 7	3 3/4	8-09 1-06	100 2	WING BEAM SEAT	SV0523 DB0701	7 1	1-06	8	4-02	4-02							
		SUBTOTAL	1123														
S.E. SIDEWALK ABUTA	MENT — I	PLAIN															
SF0531 16 5 SF0631 16 6 SF0632 20 6	3 3/4	12-09 8-06 6-06	212 204 195	FOOTING FOOTING FOOTING	SF0531 SF0631 SF0632	6 1	8-06 6-06	2-10	10-00								
SF0633 22 6 SH0531 12 5 SH0532 6 5	4 1/2	5-11 5-08 4-00		FOOTING BACKWALL BEAM SEAT	SF0633 SH0531 SH0532	6	5-08 4-00	5-00	1-00								
SH0533 18 5 SV0531 8 5	3 3/4 3 3/4	4-00 6-02 14-05 6-01		WING BACKWALL BEAM SEAT	SH0532 SH0533 SV0531 SV0532	1 7 7	6-02	8	7-00 4-02	7-00							
SV0532 6 5 SV0533 11 5 DB0701 1 7	3 3/4	6-01 13-11 1-06		BEAM SEAT WING BEAM SEAT	SV0532 SV0533 DB0701	6 7 1	1-06	2-00	4-02 6-09	6-09							
		SUBTOTAL	1336	DE IIII DE II	550701												

			DI	MENSION	VARIAT	ION	TABLE		
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			THE CITY OF LYNCHBURG, VIRGINIA DEPT. OF PUBLIC WORKS ENGINEERING
			BEDFORD AVE. BRIDGE OVER NS RWY
			REINFORCING STEEL SCHEDULE 2 OF 2
			DESIGNED BY: KSF DRAWN BY: KSF CHECKED BY: DRD
NO.	DESCRIPTION	DATE	SCALE: AS NOTED PROJECT NO.: 03036-BR
	REVISIONS		DATE: 14 JAN. 2005 SHEET: 17 OF 24



<u>GRADING</u>

- 1. THE GRADE LINE DENOTES THE TOP OF FINISHED PAVEMENT UNLESS SHOWN OTHERWISE ON TYPICAL SECTIONS OR PLANS.
- 2. THE COST OF INCIDENTAL GRADING AT SIDEWALK ABUTMENTS AND REMOVAL OF ALL EXISTING CONCRETE ITEMS IN THE AREA TO BE GRADED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING, SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING AND GRUBBING: SIDEWALK, CURB AND GUTTER, SMALL FOOTINGS AND SMALL BLOCK OR BRICK ITEMS.
- 3. THE SLOPE BETWEEN THE RAILROAD AND THE CONSTRUCTION ON CLEVELAND AVENUE SHALL BE CLEARED. ALL TREES ARE TO BE CUT OFF AT GROUND LEVEL AND THE AREA SEEDED AS SHOWN IN THESE PLANS. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLEARING AND GRUBBING.
- 4. THE BORROW MATERIAL FOR THIS PROJECT SHALL BE A MINIMUM CBR 10 OR AS APPROVED BY THE ENGINEER.

<u>DRAINAGE</u>

- 1. THE LOCATIONS OF ALL DRAINAGE STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE "H" DIMENSIONS SHOWN ON THE PLANS FOR DROP INLETS ARE APPROXIMATE.
- 2. ALL STORM DRAIN PIPE ON THIS PROJECT SHALL BE CONCRETE. FOR STRENGTH OR CLASS DESIGNATION; AVAILABLE SIZES; HEIGHT OF COVER LIMITATIONS; AND METHOD OF BEDDING LIMITATIONS FOR A PARTICULAR HEIGHT OF COVER, SEE APPLICABLE VDOT ROAD AND BRIDGE STANDARDS PC-1 AND PB-1.
- 3. THE PIPE CONNECTED TO THE EXISTING DROP INLET LABELED "REMOVE EXISTING DROP INLET" SHALL BE LEFT IN PLACE, PLUGGED IN ACCORDANCE WITH VDOT STANDARD PP-1 AND BACKFILLED. PAYMENT WILL BE IN C.Y. OF FLOWABLE BACKFILL.

<u>PAVEMENT</u>

- 1. THE PAVEMENT MATERIALS LISTED BELOW WILL BE PAID FOR ON A TONNAGE BASIS. THE WEIGHT WILL VARY IN ACCORDANCE WITH THE SPECIFIC GRAVITY OF THE AGGREGATES AND THE ASPHALTIC CONTENT OF THE MIX ACTUALLY USED TO SECURE THE DESIGN DEPTH. THE WEIGHT OF THE ASPHALT CONCRETE IS BASED ON 95% OF THEORETICAL DENSITY.
- ASPHALT CONCRETE TYPE SM 12.5D @ 113 LBS. PER S.Y. PER INCH OF DEPTH ASPHALT CONCRETE TYPE BM 25 @ 113 LBS. PER S.Y. PER INCH OF DEPTH AGGREGATE BASE MATERIAL TYPE I SIZE 21 OR 21A @ 150 LBS. PER C.F. (PLUS 6% MOISTURE CORRECTION)
- 2. THE EXISTING ASPHALT PARKING AREA ON PARCEL 566-31-254 SHALL BE RE-SURFACED WITH 3" ASPHALT CONCRETE SM 9.5A AS DIRECTED BY THE ENGINEER.

INCIDENTALS

- 1. SALVAGED GUARD RAIL MATERIALS NOT USED IN THE NEW CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AT A LICENSED LANDFILL, RECYCLED OR BE RETAINED BY THE CONTRACTOR.
- 2. ALL GUARD RAIL TERMINALS SHALL INCLUDE A STANDARD W- BEAM END SECTION (ROUNDED).
- 3. ALL EXISTING MANHOLES AND WATER VALVE BOXES WITHIN THE LIMITS OF THE PROJECT THAT ARE TO REMAIN, ARE TO BE ADJUSTED TO THE NEW GRADE IN ACCORDANCE WITH CITY STANDARDS.
- 4. THE GUTTER PAN ACROSS THE CITY STANDARD COMMERCIAL DRIVEWAY ENTRANCES (#25.12) IS NOT REQUIRED ON THIS PROJECT.
- 5. THE ROADWAY PORTION OF THE 12" WATER LINE AND APPURTENANCES WILL BE PAID FOR ON A LUMP SUM BASIS. THE PRICE BID SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION INCLUDING BUT NOT LIMITED TO PIPE, FITTINGS, VALVES, VALVE BOXES, TESTING, DISINFECTING AND CONNECTING TO THE EXISTING SYSTEM, ALL IN ACCORDANCE WITH CITY SPECIFICATIONS.

EROSION AND SEDIMENT CONTROL

- 1. THE TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE INTENDED TO PROVIDE A GENERAL PLAN FOR CONTROLLING EROSION AND SILTATION WITHIN THE PROJECT LIMITS. THE E&S CONTROL PLAN IS BASED ON FIELD CONDITIONS AT THE TIME OF PLAN DEVELOPMENT AND AN ASSUMED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR, IN CONJUNCTION WITH THE ENGINEER, SHALL ADJUST THE LOCATION, QUANTITY AND TYPE OF EROSION AND SILTATION CONTROL ITEMS REQUIRED BASED ON THE ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE SELECTED SEQUENCE OF CONSTRUCTION.
- 2. THE AREAS BEYOND THE PROJECT'S CONSTRUCTION AREA ARE TO BE PROTECTED FROM SILTATION. PERIMETER CONTROLS SUCH AS FILTER BARRIER, SILT FENCE, DIVERSION DIKES, TURBIDITY CURTAINS, ETC. SHALL BE INSTALLED PRIOR TO ANY GRUBBING OR OTHER EARTH MOVING ACTIVITIES.
- 3. SILT REMOVAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED WHEN THE CAPACITY, HEIGHT OR DEPTH HAS BEEN REDUCED BY 50%.

TRAFFIC CONTROL NOTES

- 1. CONTRACTOR SHALL COVER ANY EXISTING SIGNS WHICH CONFLICT WITH MAINTENANCE OF TRAFFIC SIGNAGE. THE EXISTING SIGNS SHOULD BE UNCOVERED AT THE COMPLETION OF THE CONSTRUCTION PERIOD.
- 2. CONSTRUCTION SIGNAGE SHALL CONFORM TO THE VIRGINIA WORK AREA PROTECTION MANUAL, JANUARY 2003 EDITION. TEMPORARY SIGNS WILL BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR. PERMANENT SIGNS WILL BE FURNISHED AND INSTALLED BY THE CITY.
- 3. CONSTRUCTION SIGNS SHALL BE LOCATED AS DEPICTED ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE ENGINEER.
- 4. ALL SIGNS, DRUMS AND OTHER DEVICES USED IN THE CONSTRUCTION ZONE SHALL BE KEPT CLEAN AND PROPERLY ALIGNED AT ALL TIMES.
- 5. ACCESS TO ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.
- 6. THE CITY WILL INSTALL PERMANENT PAVEMENT MARKINGS, AND FURNISH AND INSTALL THE LOOP DETECTORS UPON THE COMPLETION OF CONSTRUCTION.
- 7. SHORT—TERM INTERSECTION OR LANE CLOSURES SHALL BE CONDUCTED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL, JANUARY 2003 EDITION.
- 8. ALL SIGNAGE SHALL BE DIAMOND GRADE FLUORESCENT PRISMATIC LENS SHEETING.
- 9. THE CONTRACTOR SHALL PROVIDE TWO VARIABLE MESSAGE BOARDS FOR A TWO WEEK PERIOD AT THE BEGINNING OF PROJECT CONSTRUCTION. THE CONTRACTOR SHALL PLACE EACH SIGN ONE WEEK PRIOR TO THE START OF CONSTRUCTION AND EACH SIGN SHALL BE LEFT IN PLACE FOR ONE WEEK AFTER THE START OF CONSTRUCTION. THE LOCATIONS AND MESSAGE TEXT FOR EACH MESSAGE BOARD WILL BE DETERMINED BY THE CITY.
- 10. TRAFFIC CONTROL WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE. THE PRICE BID FOR TRAFFIC CONTROL WILL BE FULL COMPENSATION FOR PERFORMING ALL ITEMS OF WORKS ASSOCIATED WITH THE SAFE MAINTENANCE OF TRAFFIC IN THE PROJECT AREA AND SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND INCIDENTALS REQUIRED FOR THE SAFE MAINTENANCE OF TRAFFIC.
- 11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER ONE WEEK PRIOR TO THE START OF PROJECT CONSTRUCTION TO ALLOW FOR THE RETIMING OF ADJACENT TRAFFIC SIGNALS AS DESIRED BY THE CITY. THE CITY WILL PERFORM ALL SIGNAL TIMING MODIFICATIONS.

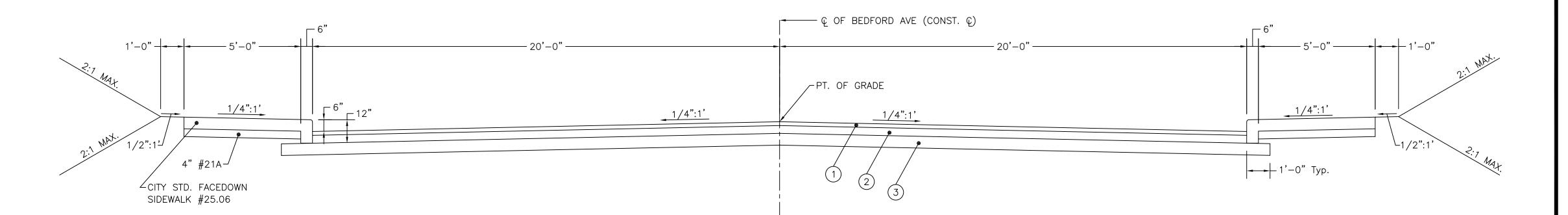


QUANTITY SUMMARY

<u>Item</u>	Unit	Quantity
Clearing and Grubbing	LS	1
Borrow Excavation	CY	2458
Traffic Maintenance	LS	1
Aggregate Base Material, Type I, No. 21 or 21A	TON	492
Asphalt Concrete Surface Course Type SM-12.5D	TON	155.2
Asphalt Concrete Base Course Type BM-25.0	TON	276.8
Asphalt Concrete Surface Course Type SM-9.5A	TON	47.1
Drop Inlet VDOT Std. DI 3B, L=4'	EA	3
15 inch Conc. Pipe	LF	152
Conn. To Exist. MH	EA	2
Guardrail GR-2	LF	75
Radial Guardrail GR-2	LF	15
Fixed Object Attachment GR—FOA—I Type II	EA	4
Remove Existing Guardrail	LF	135
Demolition of Pavement (Flexible)	SY	409
Saw Cut Asphalt Pavement (2")	LF	120
City Std Curb and Gutter	LF	70
City Std. Facedown Sidewalk	SY	144.8
City Std. Commercial Driveway Entrance (7")	SY	61.8
Remove Existing Drop Inlet	EA	1
Flowable Backfill	CY	3
Adjust Existing Sanitary Manhole	EA	2
Water Line (Roadway)	LS	1
Drop Inlet Silt Trap	EA	3
Temporary Silt Fence	LF	250
Silt Control Excavation	CY	42

② Denotes items to be paid for on basis of plan quantities in accordance with the specifications

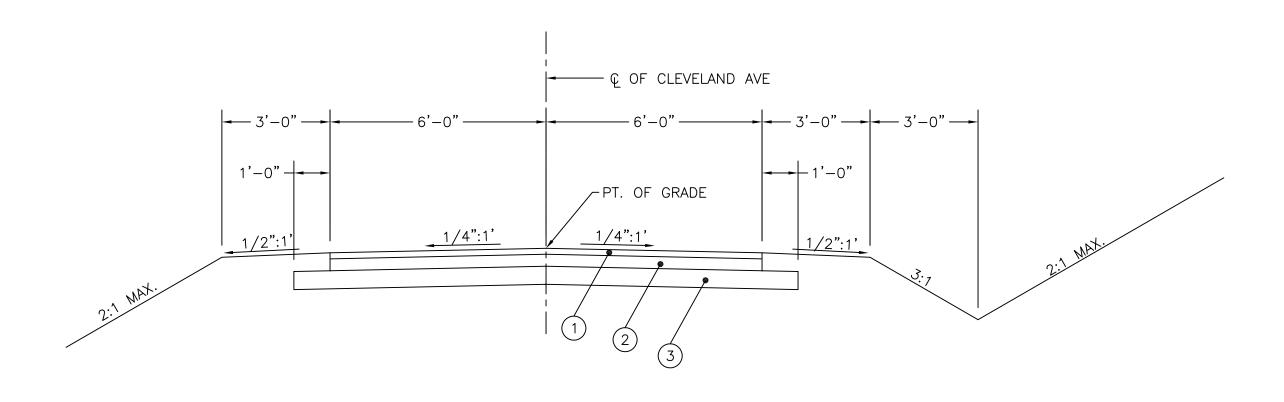
			THE CITY OF LYN	ICHBURG,	VIRGINIA
			DEPT. OF PU		WORKS
			ENGINI	EERING	
			BEDFORD AVE. BRI	DGE OVER	R NS RWY
			ROADWAY GEI AND QUANT		
			DESIGNED BY: GWB DRAWN BY	Y: KSF	CHECKED BY: GWE
NO.	DESCRIPTION	DATE	SCALE: AS NOTED	PROJECT	NO.: 03036-BR
	REVISIONS		DATE: 14 JAN. 2005	SHEET:	19 OF 24



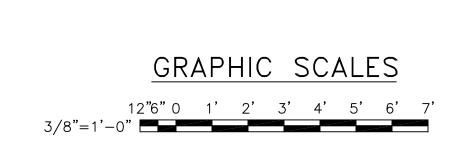
TYPICAL SECTION BEDFORD AVENUE

Leaend

- 1) 2" Asphalt Conc. SM 12.5D
- 2 4" Asphalt Conc. BM 25.0
- 3 6" Type I Aggregate #21 or #21A

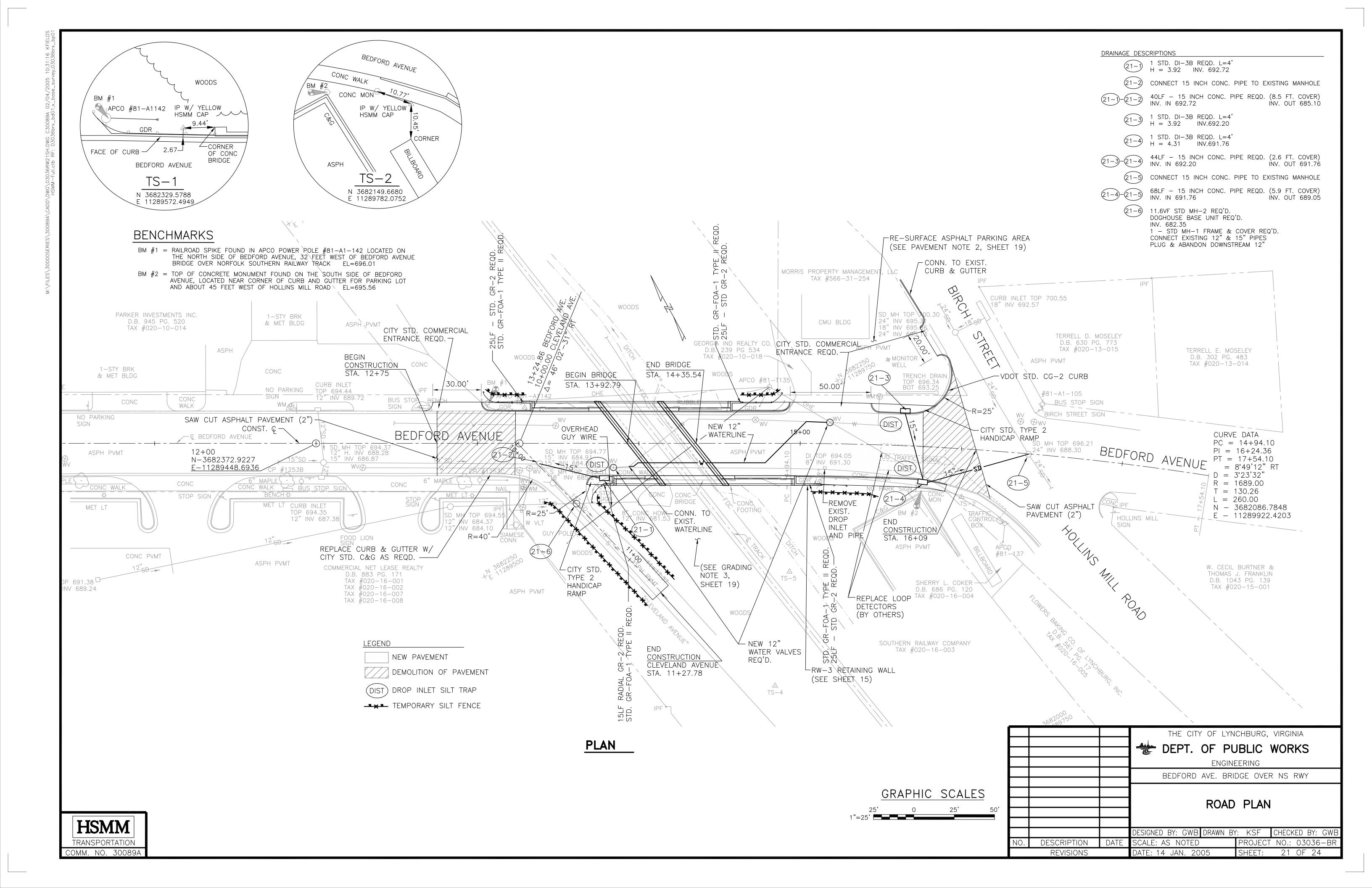


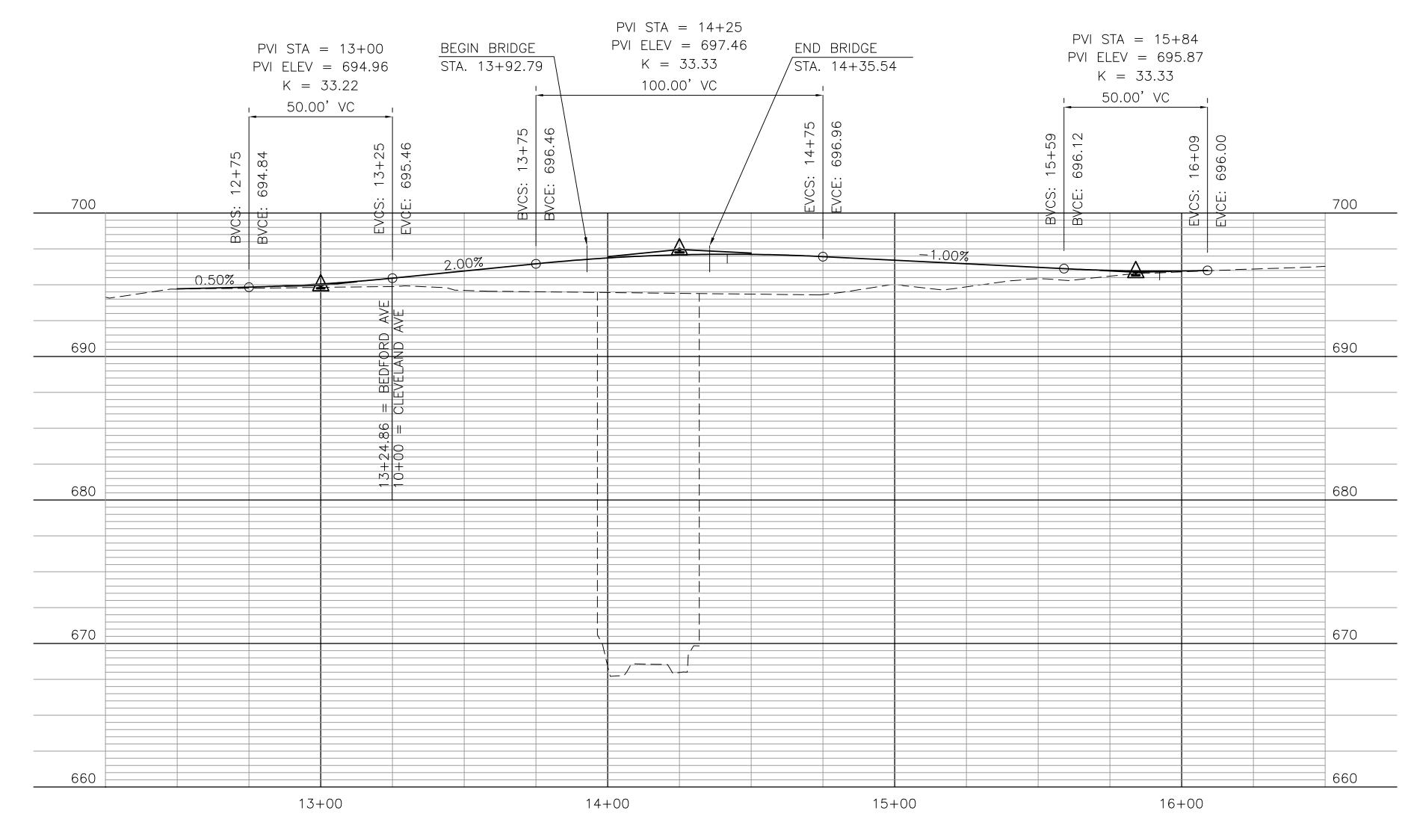
TYPICAL SECTION CLEVELAND AVENUE

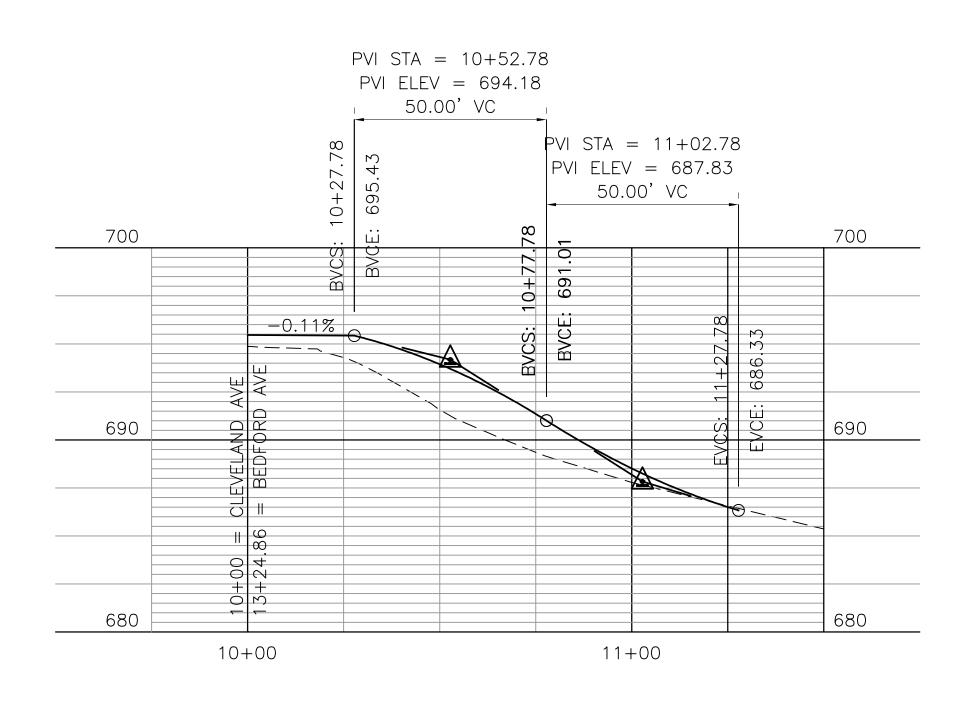


THE CITY OF LYNCHBURG, VIRGINIA	
DEPT. OF PUBLIC WORKS ENGINEERING	
BEDFORD AVE. BRIDGE OVER NS RWY	
TYPICAL SECTION & DETAILS	
DESIGNED BY: GWB DRAWN BY: KSF CHECKED BY: GWI	
D. DESCRIPTION DATE SCALE: AS NOTED PROJECT NO.: 03036-BF	. DESCRIPTION DATE
REVISIONS DATE: 14 JAN. 2005 SHEET: 20 OF 24	REVISIONS







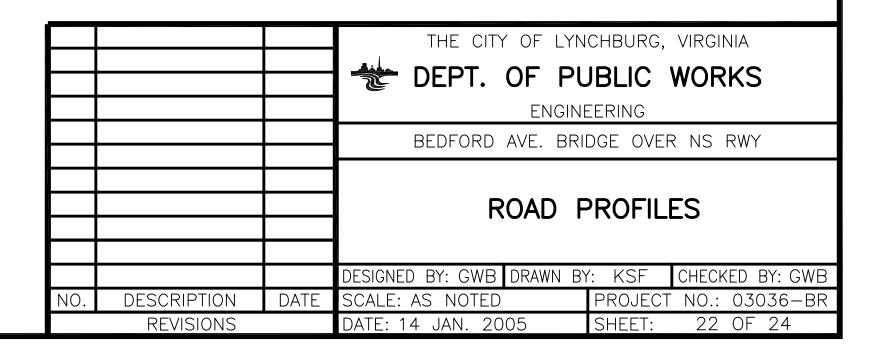


BEDFORD AVE. PROFILE

SCALE: HORIZ. 1"=25' VERT. 1"=5'

CLEVELAND AVE. PROFILE

SCALE: HORIZ. 1"=25' VERT. 1"=5'





ROADSIDE DEVELOPMENT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF LYNCHBURG

CORE MIX

MIX	LBS./ ACRES	DESCRIPTION
1	A	X 100% CERTIFIED FINE FESCUE
2	A	100% CERTIFIED TALL FESCUE
7	A	50% CERTIFIED TALL FESCUE
3		X 50% CERTIFIED FINE FESCUE
4	A	50% ORCHARDGRASS
4		50% CERTIFIED KENTUCKY BLUEGRASS
5	A	100% BERMUDAGRASS
TEMPORARY		
3/1 - 5/16 and	50	50% CERTIFIED TALL FESCUE
8/16 – 3/1	50	50% BARLEY, WINTER RYE OR WINTER WHEAT
5/16 - 8/16	50	50% FOXTAIL MILLET
	50	50% CERTIFIED TALL FESCUE

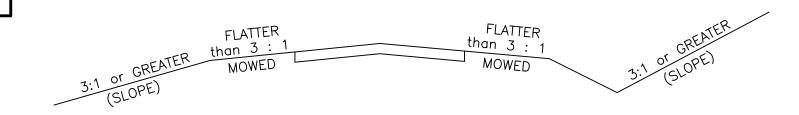
** FINE FESCUES INCLUDE CHEWINGS, CREEPING RED, HARD, SHEEP

ALL RATES TO BE SPECIFIED BY THE CITY OF LYNCHBURG

ADDITIVES

TYPE	LBS./ ACRES	DESCRIPTION
А	A	100% LOVEGRASS
В	A	100% BARLEY, WINTER RYE OR WINTER WHEAT
С	A	100% FOXTAIL MILLET
D	A	100% ANNUAL RYEGRASS
E	A	100% CROWNVETCH (LEGUME)
F	A	100% SERICEA LESPEDEZA (LEGUME)
G	A	100% BIRDSFOOT TREFOIL (LEGUME)
Н	A	
I	A	
J	A	
K	A	

SECTION OF SEED LOCATIONS



	ROADSIDE DEVELOPMENT SUMMARY									
PROJECT NUMBERS	∑TOPSOIL 2" CLASS A	REGULAR SEED	OVER SEEDING	LIME	FERT. 15-30-15	LEGUME SEED	LEGUME OVERSEEDING	TEMPORARY SEEDING		
	ACRES	LBS.	LBS.	TONS	TONS	LBS.	LBS.	LBS.		

- (A) NOT A PAY ITEM. COST TO BE INCLUDED IN OTHER PAY ITEMS.
- DENOTES ITEM(S) TO BE PAID FOR ON BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH CURRENT ROAD AND BRIDGE SPECIFICATIONS.

SEEDING SCHEDULE

	SLOPES	MOWED	SLOPES	MOWED	SLOPES	MOWED
	SEED MIX	SEED MIX	SEED MIX	SEED MIX	SEED MIX	SEED MIX
	WITH	WITH	WITH	WITH	WITH	WITH
	ADDITIVE	ADDITIVE	ADDITIVE	ADDITIVE	ADDITIVE	ADDITIVE
	MONTH	RING & DATE — 6/1	MONTH	MMER & DATE - 9/15	FALL & MONTH 9/15	& DATE
PROJECT NUMBERS						
X SPECIFY KIND OF FINE FESCUE	HARD/	HARD/	HARD/	HARD/	HARD/	HARD/
	CHEWINGS	CHEWINGS	CHEWINGS	CHEWINGS	CHEWINGS	CHEWINGS

NOTES

APPOXIMATELY 0.04 ACRES WILL BE DISTURBED ON THIS PROJECT AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

NOTES FOR FIELD USE ONLY

OVERSEEDING RATES SHALL BE 100 PERCENT OF THE SEED MIXTURE SUPPLIED WITHOUT FERTILIZER.

THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75 PERCENT UNIFORM STAND OF THE PERMANENT GRASS SPECIFIED IN THE MIXTURES IS OBTAINED. (ANNUAL SPECIES SUCH AS, RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

NOTES APPLY TO SCHEDULE

LEGUME SEED MIXES (BIRDSFOOT TREFOIL, CROWNVETCH, AND SERICEA LESPEDEZA) AND WEEPING LOVEGRASS SHALL NOT BE USED ON SHOULDERS AND OTHER LOCATIONS FLATTER THAN 3:1 SLOPE.

LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES THE DRY SEEDING RATE OF INOCULANT.

A TEMPORARY MIX OR EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ONLY ON AREAS THAT ARE TO BE REGRADED OR LATER DISTURBED, IF LEFT DORMANT FOR MORE THAN 15 DAYS.

TYPE I EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ON AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 15 DAYS BETWEEN DECEMBER 1 AND FEBRUARY 28.

SPRING & SUMMER AND FALL & WINTER DEFINED FOR THE PURPOSE OF DETERMINING WHETHER HULLED OR UNHULLED BERMUDAGRASS AND SERICEA LESPEDEZA SEED IS REQUIRED:

SPRING & SUMMER 4/1 - 9/15 - USE HULLED SEED FALL & WINTER 9/15 - 4/1 - USE UNHULLED SEED

TYPE I MULCH (STRAW) TO BE USED ON NEWLY SEEDED AREAS ADJACENT TO ALL WATERWAYS, WETLANDS, SWAMPS, OR ANY AREA IN WHICH DRAINAGE FLOWS TOWARD AREAS UNDER THE JURISDICTION OF THE ENVIRONMENTAL REGULATORY AGENCIES.

TYPE I MULCH SHALL BE APPLIED AT 2 TONS PER ACRE TO PROVIDE 90 PERCENT COVERAGE.

TYPE I MULCH SHALL BE TACKED WITH FIBER MULCH AT THE RATE OF 750 LBS. PER ACRE AND/OR MULCH TACKIFIER.

TYPE I MULCH (FIBER MULCH) MAY BE SUBSTITUTED FOR TYPE I MULCH AT THE RECOMMENDATION OF THE DISTRICT ENVIRONMENTAL MANAGER.

TYPE I MULCH SHALL BE APPLIED AT A RATE OF 1500 LBS. (NET DRY WEIGHT) PER ACRE TO PROVIDE A MINIMUM OF 90 PERCENT COVERAGE, AND SHALL BE APPLIED IN A SEPARATE APPLICATION.

EROSION CONTROL MULCH, AS LISTED ON THE VDOT APPROVED PRODUCTS LIST, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURES' RECOMMENDATIONS.

EROSION CONTROL MULCH SHALL PROVIDE 100 PERCENT COVERAGE OF ALL DENUDED AREAS.

ALL TOPSOIL IS TO BE FREE OF HARD LUMPS, CLODS, ROCKS AND FOREIGN DEBRIS AND IS TO BE HAND RAKED TO TIE INTO EXISTING LAWNS.

ALL SEED MUST BE IN CONFORMANCE WITH VDOT SEED SPECIFICATIONS FOR GRASSES & LEGUMES AND BE PROVIDED AT THE PROJECT SITE IN BAGS NOT OPENED AND LABLED FOR USE ON VDOT PROJECTS WITH A GREEN TAG CERTIFYING INSPECTION BY THE VIRGINIA CROP IMPROVEMENT ASSOCIATION.

MIX REQUIREMENTS THIS PROJECT

RECOMMENDATIONS FOR THE APPLICATION OF SEED MIXTURES (CORE MIX AND ADDITIVES), FERTILIZER, LIME, ETC. ARE TO BE OBTAINED FROM THE CITY OF LYNCHBURG.



			THE CITY OF LYNCHBURG, VIRGINIA DEPT. OF PUBLIC WORKS
			ENGINEERING
			BEDFORD AVE. BRIDGE OVER NS RWY
			ROADSIDE DEVELOPMENT
			DESIGNED BY: GWB DRAWN BY: MGS CHECKED BY: GWB
NO.	DESCRIPTION	DATE	SCALE: AS NOTED PROJECT NO.: 03036-BR
	REVISIONS		DATE: 14 JAN. 2005 SHEET: 23 OF 24

